



ARAIB TRADING GROUP COMPANY

ARAIB PPR PIPES & FITTINGS

44 Years of Experience and Excellence



1.0 INTRODUCTION

ARAIB PPR piping systems can maintain its function for more than a half century at a huge range of fluid and environmental operating temperatures. Additionally, PPR pipe exhibits excellent longevity in both hot and cold-water systems. It can endure the temperature and pressure strain of hot water systems.

ARAIB PPR pipe can survive to extreme impacts such as in cold weather, installations without any risk of damaging, compare to other common types of plastic piping. ARAIB PPR has a low thermal conductivity, which means the environment's temperature can't be easily conducted to the liquid in the pipe. Also, it reduces the heat loss or gain during the process of transporting the hot or cold fluids resulting in energy-saving systems, and lessen the insulation cost for PPR piping system. ARAIB PPR pipes has a very extreme level of resistance against abrasion by hard particles and the glossy inner surface of the PPR boasts a very low friction coefficient.

1.1 PPR PIPE APPLICATIONS

The durability, economical, and ecological advantages of PPR has resulted in it being used for an increasing number of diverse applications in recent years.

1.2 MOST COMMON PPR PIPE APPLICATIONS INCLUDE:

Hot and cold potable water piping in residential, industrial, and public installations. Industrial piping for transferring water, sanitary liquids, liquid food products, compressed air, and aggressive chemicals e.g. highly acidic or alkaline solutions. Building central radiator heating water, usually in a circular loop piping arrangement.

1.3 RAW MATERIAL / PPR

Araib pipes and fittings are made from premium Polypropylene Random Copolymer (PP-R) Type 3 raw material, which has a high molecular weight, low melt flow rate, and good elasticity. The physical and chemical characteristics of Araib pipes make it a flexible pipe system for a variety of uses across several industries.

This raw material is advised for use in making pressure pipes, such as those used to transport potable water, hot water, cold water, heat floors, and for chemical industrial use.

Good long-term pressure resistance and easy processing and installation technique give cold and hot water systems made of PPR pipes an advantage as alternative to the traditional systems. It's advantages over other PP type 1 or 2 and other thermoplastic pipes in the portable water industries are its high impact strength and resistance to high temperatures. Ref Table 1.5.1.

Table 1.5.1.RAW MATERIAL / PPR

Density	0.895 g/ cm ³
Molecular weight	500000
Modulus of elasticity	800N/mm ²
Expansion coefficient	0.15mm/mK
Thermal conductivity	0.24W/mK (at 20°C)

1.4 ARAIB PPR ADVANTAGES

The most obvious benefits of ARAIB PPR Pipes over those constructed of other conventional materials are.

1. Corrosion Resistance

Corrosion, which can occur either chemically or as a result of atmospheric action, is a severe negative effect for pipe systems made of galvanized steel that are utilized in industrial and domestic applications. The removal of metal ions can damaged pipes and the result of corrosion that may have a negative impact on health. Since ARAIB PPR Pipe System is 100% resistant to corrosion when the flow substances have pH values between 1 and 14,

or within a specific concentration, pressure, and temperature range, it overcomes the aforementioned factor. When PPR pipes come into contact with typical building materials, they can do so safely.

2. Frictional loss and flow rate reduction

The coefficient of friction, which has a direct impact on the pressure loss and therefore the energy loss is the main variable that determines how much water flows through a pipe system. The qualities of the surface finish, or whether the inside of the pipe is smooth or rough, determine the coefficient of friction. Improved pipe smoothness lowers frictional loss. When compared to other water conveyancing systems, PPR's frictional value is relatively low, which results in excellent flow characteristics including smooth and uniform laminar flow with little energy loss and pressure head.

3. Low-pressure loss

The PPR pipe's smooth surface and lack of pores minimize the accumulation of lime scale and ensures little pressure loss throughout the system.

4. Flow noise

Compared to metallic pipes, PPR pipe systems have reduced flow noise.

5. Hammering and knocking

The key factors influencing knocking and water hammer in a pipe system are the water flow rate, pipe length, valve closure time, and elastic qualities of the pipe materials. In comparison to metallic and PVC pipes, PPR has a much better elastic property and have a good balance of stiffness to toughness. Due to water pounding, PPR pipes system lowers noise and vibration.

6. Condensation and thermal conductivity

The thermal conductivity of the pipe material determines how easily the water conveyance system will condense. With a thermal conductivity of 0.24 W/mK, PPR has very little thermal leakage, little condensation, and little energy loss.

7. Simple Install

PPR pipes provide straightforward installation techniques for all common applications. PPR pipes and fittings are solely bonded by fusion, therefore the system is trouble-free for the duration of its life. Additional benefits of the PPR pipe system includes quick and safe installations,

great mechanical flexibility, ease of handling, and repair.

8. Life span

PPR pipes' life spans can be predicted in advance for any working pressure and working temperature as long as they fall within the pre-determined ranges. The life span of PPR pipes with an operating pressure of 8 bar and a maximum working temperature of 70°C surpasses 50 years in both theory and practice.

2.0 LIFE SPAN OF CLASS 2/8 BARS PIPES IN THE ARAIB

The durability of pipes made to ARAIB Class 2/8 Bars Standard.

The permitted pressure and the designated working temperature affect the ARAIB Pipes' lifespan. The lifespan of ARAIB class 2/8 bars standard Pipe is displayed in table 1 below. Ref. Table 2.0.1

Table 2.0.1 : LIFE SPAN OF Class 2/8 Bars Pipes in the ARAIB

TEMPERATURE in °C	ALLOWABLE WORKING PRESSURE IN BAR	SERVICE LIFE IN YEARS
10	29.6	100
20	25.0	100
30	21.1	100
40	17.8	100
50	14.9	100
60	12.9	50
70	8.5	50
80	6.5	25

2.1 THERMAL AND MECHANICAL PROPERTIES

Table 3.1.1 Thermal and Mechanical Properties

PROPERTY	TEST METHOD	UNIT	VALUE
Viscosity number Molecular weight average	ISO 1191	Cm ³ /g	420
	Solution viscosity C=0.001g/cm ³		500.00
Melt flow index	ISO 1133		
MFI 190/5	Condition 18	g/10min	10.5
MFI 230/5	Condition 20	g/10min	15
MFI 250/2.16	Condition 12	g/10min	0.35
Density	ISO/R1183	g/cm ³	0.895
Melting Range	Polarization Microscope	°C	140-150
Tensile stress at yield	ISO/R 527	N/mm ²	21
Tensile strength at break	Speed D	N/mm ²	40
Elongation at break	Test specimen	%	800
Ball indentation hardness	ISO 2039 (H 358/30)	N/mm ²	40
Flexural stress at 5.5%	ISO 178	N/mm ²	20
Outer fibre strain	Test Piece 5.1		
Modulus of elasticity	ISO 178	N/mm ²	800
Shear Modulus	ISO 537		
-10°	Method A	N/mm ²	1100
0°		N/mm ²	770
10°		N/mm ²	500
20°		N/mm ²	370
30°		N/mm ²	300
40°		N/mm ²	240
50°		N/mm ²	180
60°		N/mm ²	140
Mechanical strength properties			
Determined by impact strength			
0°C	DIN 8078		No failure
Impact strength (Charpy) RT	ISO 179	KJ/m ²	No failure
	Test specimen		
°C		KJ/m ²	No failure
-10°C		KJ/m ²	No failure
Notched impact strength (Charpy) RT	ISO 179	KJ/m ²	25
	Test specimen		
°C		KJ/m ²	7

2.1.1 LONG TERM BEHAVIOUR OF ARAIB PPR PIPES

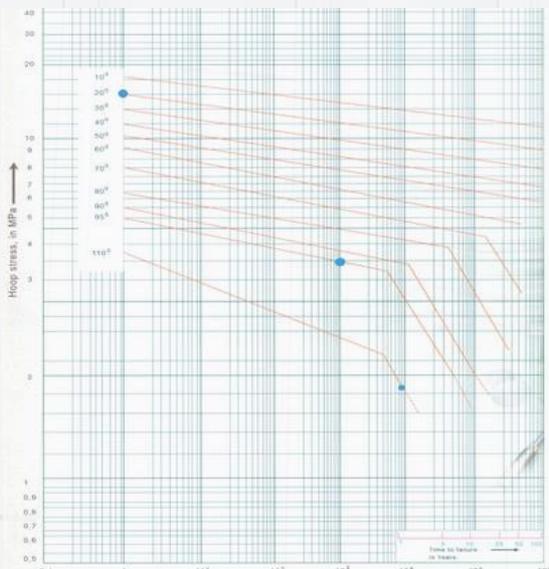


Figure 1: Long-Term Behavior of PP-R pipes

2.2 RANGE OF PRODUCTS

ARAIB PPR PIPE & ARAIB COMPOSITE PIPES:

1. Extend the pipe's lifespan after installation and exposure to the elements.
2. Shield PPR Piping from UV light.
3. The composite complies with SASO ISO 15874 standards, and the inner layer of the composite complies with DIN8077 and DIN8078 standards.
4. The installation fittings are comparable to single-layer PPR pipes.
5. During production, the ARAIB Class 2/8 Bars Standard pipe Schedule must be followed.

3.0 TECHNICAL SPECIFICATION

ARAIB consistently stays one step ahead and complies with SASO norms and regulations while manufacturing thermopipes and fittings. SASO ISO 15874 serves as the foundation for the general quality requirements and test conditions.

The following important elements that should be taken into account while planning and choosing networks are:

1. Creep rupture and working pressure at various temperatures

The internal pressure resistance and creep rupture strength of the pipe material were evaluated using a variety of tests. The following test conditions are listed in table 3.0.1 and were used to test sample sections of pipe in compliance with SASO ISO 15874.

Table 3.0.1: Creep rupture and working pressure at various temperatures

TEST TEMPERATURE in °C	CONTACT MEDIUM	PERIOD OF STRESSING IN HRS(MINIMUM TIME TO FAILURE)	PROOF STRESS σ_0 in N/mm ²
20	Air or Water	1	16
95	Air or Water	1000	3.5
110	Air	8760	1.9

The proof pressure is calculated as p_e

$$p = \frac{2S_{min} \sigma_0}{d - S_{min}}$$

d —mean outside diameter **S_{min}** - minimum wall thickness

σ_0 - Proof stress

The result of the test is that pipe shall neither burst nor leak during the prescribed period of stressing.

2. Pipe under Internal Pressure

p = Internal pressure d_m = mean diameter s = wall thickness



3.1 INSTRUCTIONS TECHNICAL

When compared to other plastic polymers, PPR has a higher impact strength.

- The energy capacity and impact resistance of PPR are tested using standard procedures.
- At a temperature of 0°C–1°C, the impact resistance of unnotched specimens is tested.
- Intensity of impact in KJ/m²

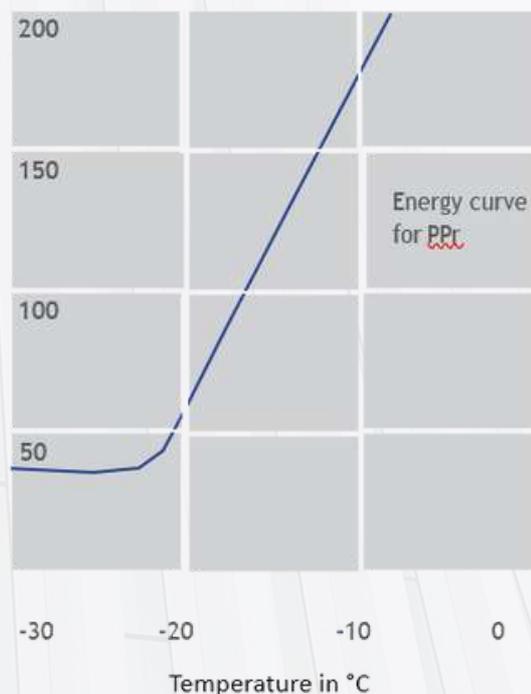


Figure 3.1.1: TECHNICAL INSTRUCTIONS

PRODUCT RANGE

4.0 PRODUCT RANGE

Araib PPR PIPE has a wide range of sizes for the nominal diameter, outer & internal, and nominal thickness. Refer to following tables below.

4.1 ARAIB PPR PIPE

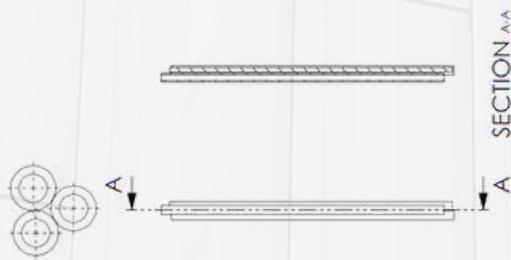


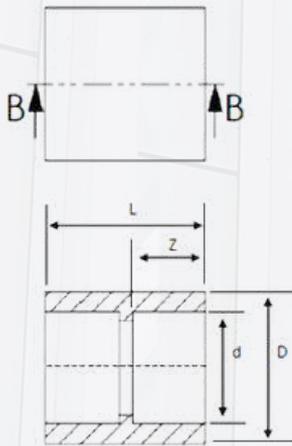
Table 4.1.1 : ARAIB PPR PIPES DIAMATER

PIPE SIZE	NOMINAL DIAMETER (D) in mm	OUTER DIAMETER (Dg) in mm	INTERNAL DIAMETER (d) in mm	NOMINAL THICKNES S (s) in mm	TOTAL THICKNESS (sg) in mm
Ø 20	20.00	21.80	13.20	3.40-4.00	4.30-4.90
Ø 25	25.00	27.00	16.60	4.20-4.90	5.20-5.90
Ø 32	32.00	34.00	21.20	5.40-6.20	6.40-7.20
Ø 40	40.00	42.20	26.60	6.70-7.60	7.80-8.70
Ø 50	50.00	52.20	33.40	8.30-9.40	9.40-10.50
Ø 63	63.00	65.40	42.00	10.50-11.80	11.70-13.00
Ø 75	75.00	77.40	50.00	12.50-14.00	13.70-15.50
Ø 90	90.00	93.00	60.00	15.00-16.80	16.50-18.30
Ø 110	110.00	113.60	73.40	18.30-20.40	20.20-22.00

4.2 ARAIB PPR FITTINGS

1-ARAIB COUPLING

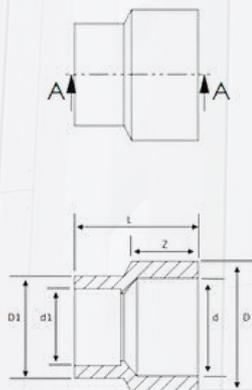
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	D (In mm)	d (In mm)	L (In mm)
Ø 20	29.2	19.20	32.00
Ø 25	34.30	24.20	35.00
Ø 32	43.30	31.10	40.50
Ø 40	52.6	39.00	47.00
Ø 50	66.8	49.00	53.00
Ø 63	83.2	61.90	61.00
Ø 75	100.00	74.30	68.00
Ø 90	120.00	89.30	76.00
Ø 110	147.00	109.40	88.00
Ø 125	168.00	124.00	96.00

2- ARAIB REDUCER (Bush Type)

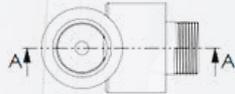
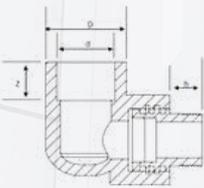
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	d (In mm)	D (In mm)	d1 (In mm)	D1 (In mm)	Z (In mm)	L (In mm)
Ø 32/25	31.30	43.30	24.30	34.30	18.00	40.00
Ø 50/25	49.00	66.80	24.30	34.70	24.00	50.00
Ø 50/40	49.00	66.80	39.00	52.60	24.00	52.50
Ø 63/25	61.90	83.20	24.30	34.40	28.00	59.00
Ø 63/32	61.90	83.20	31.10	42.60	28.00	60.00
Ø 63/40	61.90	83.20	39.00	52.60	28.00	60.50
Ø 63/50	61.90	83.20	49.00	66.80	28.00	60.50
Ø 75/50	74.30	100.0	49.00	66.80	31.50	67.50
Ø 75/63	74.30	100.0	61.90	83.20	31.50	68.00
Ø 90/32	89.30	120.2	31.10	42.60	35.00	75.00
Ø 90/40	89.30	120.2	39.20	52.60	35.00	76.00
Ø 90/50	89.30	120.2	49.20	67.00	35.00	76.00
Ø 90/63	89.30	120.2	61.90	83.20	35.00	76.00
Ø 90/75	89.30	120.2	74.30	100.00	35.00	77.00
Ø 110/75	109.40	147.1	74.30	100.00	40.00	87.50
Ø 110/90	109.40	147.1	89.30	120.30	40.00	87.50

3- ARAIB 90° ELBOW WITH MALE INSERT

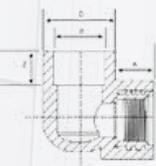
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	d (In mm)	D (In mm)	Z (In mm)	h (In mm)
Ø 20x1/2"	19.20	34.40	16.00	14.00
Ø 25x1/2"	24.30	34.40	16.00	14.00
Ø 25x3/4"	24.30	34.40	16.00	15.00
Ø 32x3/4"	31.50	43.3	18.20	15.00
Ø 32x1"	31.50	43.3	18.20	34.00

4-ARAIB 90° ELBOW WITH FEMALE INSERT

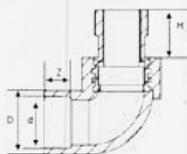
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	d (In mm)	D (In mm)	Z (In mm)	h (In mm)
Ø 20x1/2"	19.20	29.20	14.50	14.00
Ø 25x1/2"	24.20	34.30	16.00	14.00
Ø 25x3/4"	24.20	34.30	16.00	14.00
Ø 32x3/4"	31.10	43.30	18.00	14.00
Ø 32x1"	31.1	43.30	18.00	21.00

5- ELBOW MALE INSERT HEXAGONAL

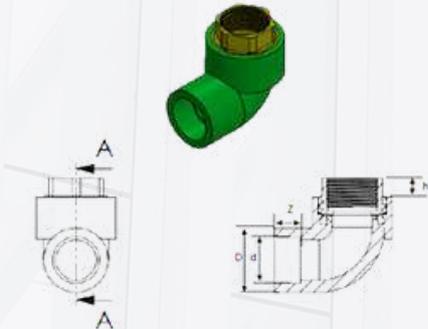
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	d (In mm)	D (In mm)	Z (In mm)	L (In mm)
Ø 32x1"	31.50	43.3	18.20	15.00

6- ELBOW FEMALE INSERT HEXAGONAL

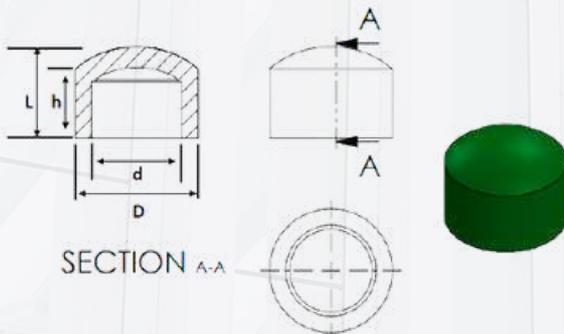
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	d (In mm)	D (In mm)	Z (In mm)	L (In mm)
Ø 32x1"	31.50	43.3	18.20	15.00

7- ARAIB END CAP

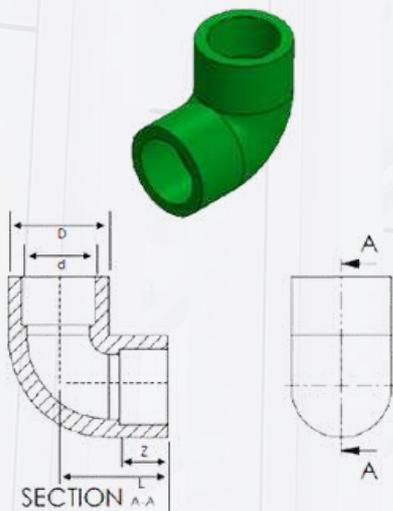
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	d (In mm)	D (In mm)	h (In mm)	L (In mm)
Ø 20	19.20	29.20	14.50	25.70
Ø 25	24.20	34.30	16.00	26.00
Ø 32	31.10	43.30	18.00	31.50
Ø 40	39.00	52.50	21.00	34.00
Ø 50	49.00	66.80	24.00	41.00
Ø 63	61.90	83.20	28.00	53.00
Ø 75	74.30	100.00	31.50	58.50
Ø 90	89.30	120.00	33.00	60.00
Ø 110	109.4	147.10	40.00	79.00
Ø 125	124.00	168.00	43.00	85.70

8- ARAIB 90°ELBOW

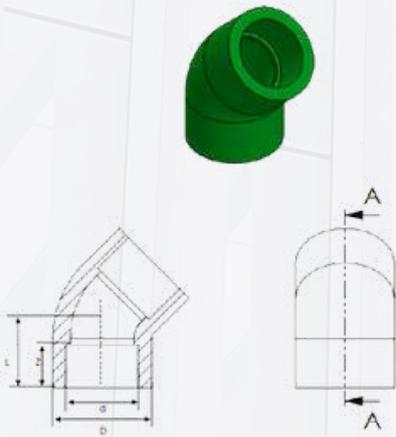
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ITEM	d (In mm)	D (In mm)	z (In mm)
Ø 20	19.20	29.20	14.50
Ø 25	24.20	34.30	16.00
Ø 32	31.10	43.30	18.00
Ø 40	39.00	52.60	21.00
Ø 50	49.00	66.80	24.00
Ø 63	62.90	83.20	28.00
Ø 75	74.30	100.00	31.50
Ø 90	89.30	120.00	35.00
Ø 110	109.40	147.10	40.00
Ø 125	124.00	168.00	40.00

9- ARAIB 45° ELBOW

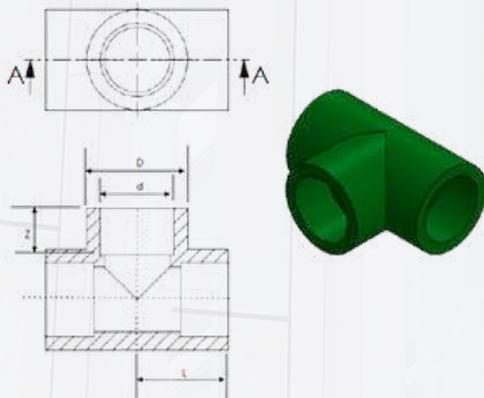
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	d (In mm)	D (In mm)	Z (In mm)	L (In mm)
Ø 20	19.20	29.20	14.50	25.50
Ø 25	24.20	34.30	16.00	31.00
Ø 32	31.10	43.30	18.00	35.00
Ø 40	39.00	52.50	21.00	41.00
Ø 50	49.00	66.80	24.00	49.50
Ø 63	61.90	83.20	28.00	60.50
Ø 75	74.30	100.00	31.50	71.00
Ø 90	89.30	120.00	35.00	79.00
Ø 110	109.40	146.00	40.00	97.00

10) ARAIB EQUAL TEE

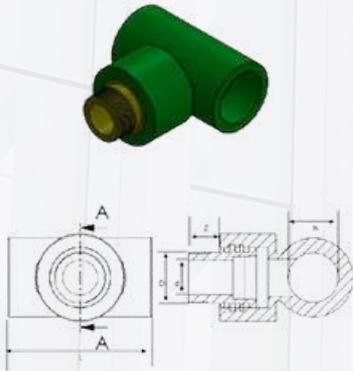
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	d (In mm)	D (In mm)	Z (In mm)	L (In mm)
Ø 20	19.20	29.20	14.50	25.50
Ø 25	24.20	34.30	16.00	31.00
Ø 32	31.00	43.30	18.00	35.00
Ø 40	39.00	52.60	20.50	42.00
Ø 50	49.00	66.80	23.50	50.00
Ø 63	62.00	83.20	27.50	60.50
Ø 75	74.00	100.00	30.00	68.00
Ø 90	89.00	120.20	33.00	80.00
Ø 110	109.00	147.10	37.00	92.00

11- ARAIB TEE WITH MALE INSERT

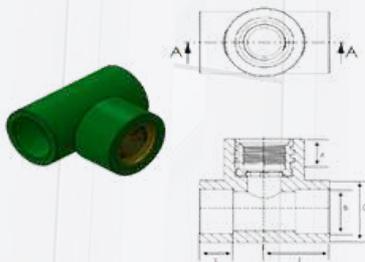
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	d (In mm)	D (In mm)	Z (In mm)	L (In mm)	h (In mm)
Ø 20x1/2"	19.00	29.00	14.50	25.50	13.00
Ø 25x1/2"	24.00	34.00	16.00	31.00	13.00
Ø 25x3/4"	24.00	34.00	16.00	31.00	14.00
Ø 32x3/4"	31.00	42.00	18.00	35.00	14.00
Ø 32x1"	31.00	42.00	18.00	35.00	20.50

12- ARAIB TEE WITH FEMALE INSERT

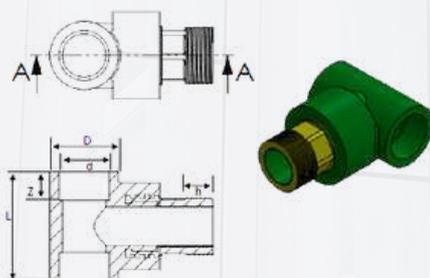
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	d (In mm)	D (In mm)	Z (In mm)	L (In mm)	h (In mm)
Ø 20x1/2"	19.00	29.00	14.50	25.50	17.00
Ø 25x1/2"	24.00	34.00	16.00	31.00	17.00
Ø 25x3/4"	24.00	34.00	16.00	31.00	17.00
Ø 32x3/4"	31.00	42.00	18.00	35.00	17.00
Ø 32x1"	31.00	42.00	18.00	35.00	22.00

13- ARAIB TEE WITH MALE INSERT HEXAGONAL

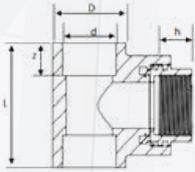
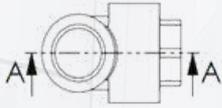
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	d (In mm)	D (In mm)	Z (In mm)	L (In mm)	h (In mm)
Ø 32x1"	31.40	43.50	18.00	83.5	24.9

14- ARAIB TEE WITH FEMALE INSERT HEXAGONAL

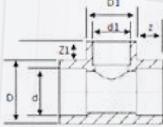
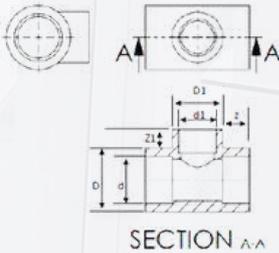
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	d (In mm)	D (In mm)	Z (In mm)	L (In mm)	h (In mm)
Ø 32x1"	31.40	43.50	18.00	83.50	26.40

15) ARAIB TEE REDUCER

Ref : Acc. to DIN 16962, SASO-ISO 15874



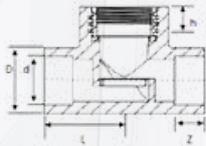
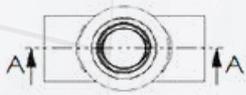
SECTION A-A



P	d (In mm)	D (In mm)	d1(In mm)	D1 (In mm)	Z (In mm)	Z1 (In mm)
Ø 25/20	24.20	34.30	19.20	29.20	16.00	14.50
Ø 32/20	31.10	43.30	19.20	29.20	18.00	14.50
Ø 32/25	31.10	43.30	24.20	34.30	18.00	16.00
Ø 40/32	39.00	52.60	31.30	42.60	21.00	18.00
Ø 50/25	49.00	66.80	24.20	34.60	24.00	16.00
Ø 50/32	49.00	66.80	31.30	42.60	24.00	18.00
Ø 63/25	62.10	83.20	24.40	52.60	28.00	21.00
Ø 63/40	62.10	83.20	39.10	52.60	28.00	21.00
Ø 63/50	62.20	83.20	49.30	83.20	28.00	24.00
Ø 75/32	74.30	100.00	31.30	52.50	31.50	18.20
Ø 75/40	74.30	100.00	39.20	52.50	31.50	21.00
Ø 75/50	74.30	100.00	49.30	83.20	31.50	24.00
Ø 75/63	74.00	100.00	61.90	83.20	31.50	28.00
Ø 90/32	89.40	120.20	31.30	66.90	35.00	18.20
Ø 90/40	89.40	120.20	39.20	66.90	35.00	21.00
Ø 90/50	89.40	120.20	49.00	66.90	35.00	24.00
Ø 90/63	89.30	120.20	61.90	100.00	35.00	28.00
Ø 90/75	89.30	120.20	74.30	100.00	35.00	31.50
Ø 110/75	109.40	147.10	74.30	120.30	40.00	31.50
Ø 110/90	109.40	147.10	89.30	120.30	40.00	35.00

16- ARAIB TEE VALVE

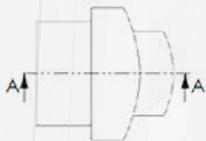
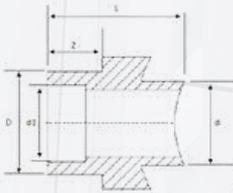
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	d (In mm)	D (In mm)	Z (In mm)	L (In mm)	h (In mm)	G (In Inch)
Ø 20	19.00	34.00	14.50	43.50	11.00	3/4
Ø 25	24.00	34.00	16.00	37.00	11.00	3/4
Ø 32	31.00	43.00	18.00	49.00	33.00	1

17) ARAIB SADDLE

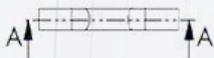
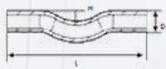
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	d (In mm)	d1 (In mm)	D1 (In mm)	Z (In mm)	h (In mm)
Ø 50/25	25.00	24.00	34.00	16.00	8.30
Ø 63/25	25.00	24.00	34.00	16.00	10.50
Ø 50/32	32.00	31.00	43.00	18.00	8.30
Ø 63/32	32.00	31.00	43.00	18.00	10.50
Ø 75/32	32.00	31.00	43.00	18.00	12.50
Ø 90/32	32.00	31.00	43.00	18.00	15.00
Ø 90/40	40.00	39.00	52.00	20.50	13.00
Ø 110/32	32.00	31.00	43.00	18.00	18.30
Ø 125/32	32.00	31.00	43.00	18.00	20.80

18- ARAIB CROSS OVER

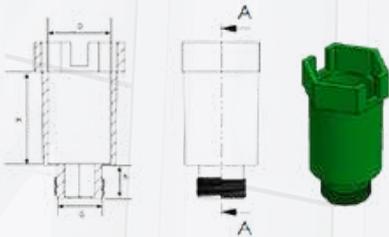
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	D (In mm)	L (In mm)	H (In mm)
Ø 20	20.00	354.00	25.00
Ø 25	25.00	357.00	35.00
Ø 32	32.00	357.00	35.00

19- ARAIB TEST PLUG

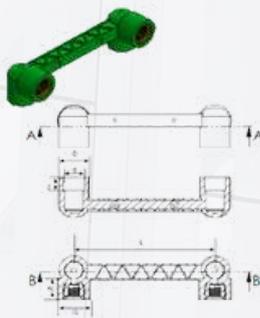
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	G (In mm)	D (In mm)	h (In mm)	H (In mm)
1/2 "	20.2	30	12.5	54.5
3/4 "	25.4	30	12.5	54.5

20- ARAIB WALL MOUNT GROUP

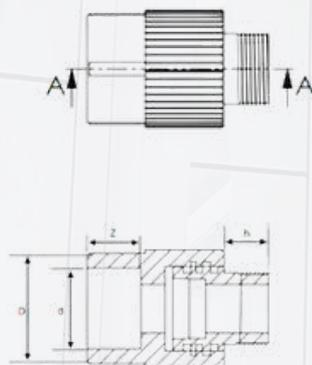
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	d (In mm)	D (In mm)	Z (In mm)	h (In mm)
Ø 20x1/2"	19.00	29.00	14.50	13.50
Ø 25x1/2"	24.00	34.00	16.00	13.30

21- ARAIB ADAPTER WITH MALE INSERT

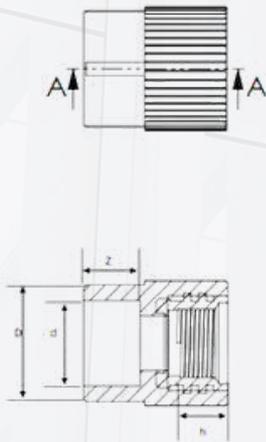
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	d (In mm)	D (In mm)	Z (In mm)	h (In mm)
Ø 20x1/2"	19.20	29.20	14.50	14.00
Ø 25x1/2"	24.20	34.30	16.00	14.00
Ø 25x3/4"	24.20	34.30	16.00	15.00
Ø 32x3/4"	31.10	43.30	18.00	15.00
Ø 32x1"	31.10	43.30	18.00	32.00
Ø 40x1 1/4"	39.00	52.60	21.00	36.00
Ø 50x1 1/2"	49.00	66.80	24.00	40.00
Ø 63x2"	61.90	83.20	28.00	44.00
Ø 75x2 1/2"	74.30	100.00	31.00	47.00
Ø 90x3"	89.30	120.20	35.00	56.00
Ø 110x4"	109.40	147.10	40.00	66.00

22- ARAIB ADAPTER WITH FEMALE F INSERT

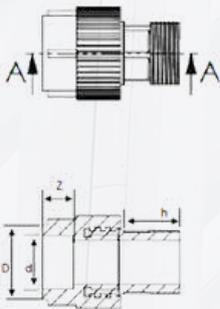
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	d (In mm)	D (In mm)	Z (In mm)	h (In mm)
Ø 20x1/2"	19.20	29.20	14.50	14.00
Ø 25x1/2"	24.20	34.30	16.00	14.00
Ø 25x3/4"	24.20	34.30	16.00	14.00
Ø 32x3/4"	31.10	43.30	18.00	14.00
Ø 32x1"	31.10	43.30	18.00	21.00
Ø 40x11/4"	39.00	52.60	21.00	21.00
Ø 50x11/2"	49.00	66.80	24.00	23.00
Ø 63x2"	61.90	83.20	28.00	23.00
Ø 75x21/2"	74.30	100.00	31.50	29.00
Ø 90x3"	89.30	120.20	35.00	35.00
Ø 110x4"	109.40	147.10	42.50	42.50

23- ARAIB ADAPTER WITH MALE INSERT HEXAGONAL

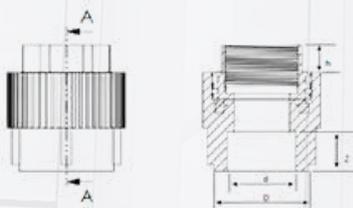
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	d (In mm)	D (In mm)	Z (In mm)	L (In mm)	h (In mm)
Ø 32x1"	31.40	49.76	18.00	79.00	25.50

24- ARAIB ADAPTER WITH FEMALE INSERT HEXAGONAL

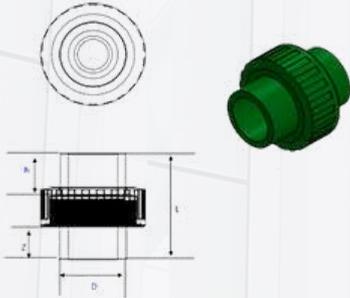
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	d (In mm)	D (In mm)	Z (In mm)	L (In mm)	h (In mm)
Ø 32x1"	31.40	49.76	18.00	57.60	12.30

25- ARAIB UNION ADAPTER MALE

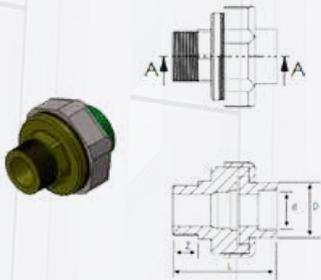
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	D (In mm)	z (In mm)	G (In Inch)	h (In mm)	L (In mm)
Ø 25	34.30	16.00	3/4	15.00	20.00
Ø 32	43.30	18.00	1	16.00	22.00
Ø 40	52.60	29.00	1 1/4	18.00	36.4
Ø 50	66.80	32.00	1 1/2	19.00	41.80
Ø 63	83.20	20.00	2	23.00	34.00

26- ARAIB UNION ADAPTER -MALE

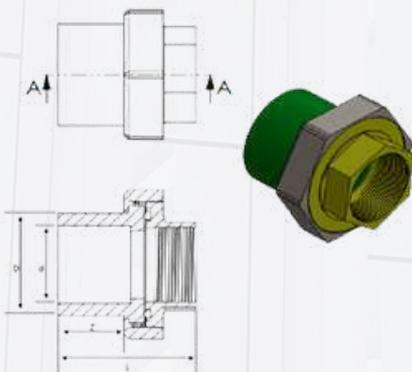
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	d (In mm)	D (In mm)	z (In mm)	G (In Inch)	L (In mm)
Ø 25	24.20	34.30	16.00	3/4	45.00
Ø 32	31.10	43.30	18.00	1	52.00
Ø 40	39.00	52.60	29.00	1 1/4	77.00
Ø 50	49.00	66.80	32.00	1 1/2	84.00
Ø 63	61.90	83.20	28.00	2	80.00
Ø 90	74.40	90.00	30.00	3 1/2	113.00

27- ARAIB UNION ADAPTER -FEMALE

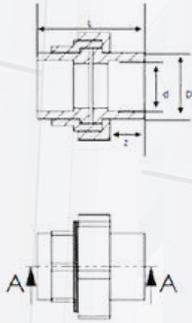
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	d (In mm)	D (In mm)	z (In mm)	G (In Inch)	L (In mm)
Ø 25	24.20	34.30	16.00	3/4	36.00
Ø 32	31.10	43.30	18.00	1	40.00
Ø 40	39.00	52.60	29.00	1 1/4	59.00
Ø 50	49.00	66.80	32.00	1 1/2	66.00
Ø 63	61.90	83.20	28.00	2	60.00
Ø 90	74.40	90.00	30.00	3 1/2	89.00

28- ARAIB UNION JOINT SHORT NECK

Ref : Acc. to DIN 16962, SASO-ISO 15874



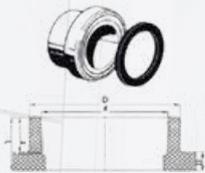
ITEM	d (In mm)	D (In mm)	Z (In mm)	L (In mm)
Ø 20	19.00	29.00	14.50	48.00
Ø 25	24.00	34.00	16.00	55.00
Ø 32	31.00	43.00	18.00	72.00
Ø 40	39.00	52.00	20.50	75.00
Ø 50	49.00	67.00	23.50	86.00
Ø 63	62.00	84.00	27.50	105.00

PRODUCT RANGE

3.3 ARAIB FLANGE

1- Flange Adapter

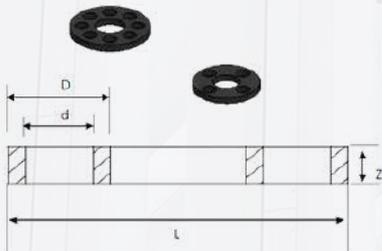
Ref : Acc. to DIN 16962, SASO-ISO 15874



ITEM	d (In mm)	D (In mm)	Z (In mm)	L (In mm)	D1 (In mm)
Ø 75	74.40	90.00	30.00	46.00	185.00
Ø 90	89.40	108.00	33.00	50.00	200.00
Ø 110	109.50	131.00	37.00	55.5	220.00

2- Flange Adapter

Ref : Acc. to DIN 16962, SASO-ISO 15874



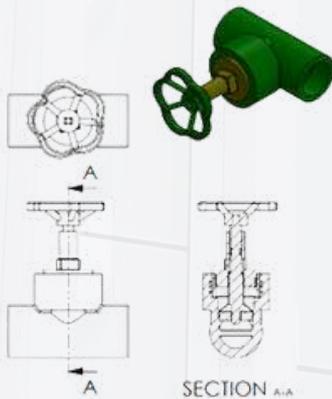
ITEM	d1 (In mm)	D (In mm)	Z (In mm)	l1 (In mm)
Ø 75	92.00	186.00	30.00	145.00
Ø 90	110.00	201.00	33.00	160.00
Ø 110	133.00	221.00	37.00	180.00

PRODUCT RANGE

3.1 ARAIB VALVES

1- ARAIB GLOBE VALVE SET

Ref : Acc. to DIN 16962, SASO-ISO 15874

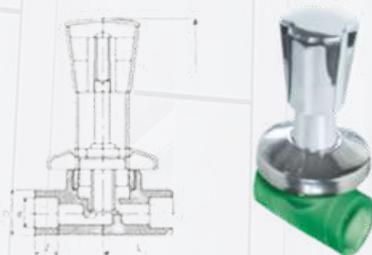


ITEM	d (In mm)	D (In mm)	Z (In mm)	L (In mm)
Ø 25 "3/4"	24.20	34.30	35.00	67.00
Ø 32 "1"	31.10	43.30	40.50	96.50
Ø 40 "1 1/4"	39.00	52.60	47.00	115.00
Ø 50 "1 1/2"	49.00	66.80	53.00	115.00
Ø 63 "1 1/2"	61.90	83.20	61.00	106.90

2- ARAIB CONCEALED NORMAL VALVE SET

WITH CHROMED UPPER PART

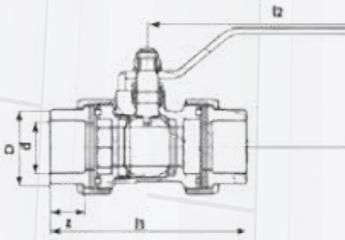
Ref: Acc. to DIN 16962, ISO 15874



ITEM	d (In mm)	D (In mm)	Z (In mm)	L (In mm)
Ø 25 "3/4"	24.20	34.30	35.00	120.70
Ø 32 "1"	31.10	43.30	40.50	121.80
Ø 40 "1 1/4"	39.00	52.60	47.00	130.00
Ø 50 "1 1/2"	49.00	66.80	53.00	130.00

3- ARAIB UNION BALL VALVE SET

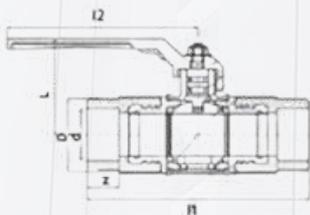
Ref: Acc. to DIN 16962, SASO-ISO15874



ITEM	d (In mm)	D (In mm)	z (In mm)	L (In mm)	h1 (In mm)	h2 (In mm)
Ø 25	24.20	34.30	16.00	55.00	89.00	109.00
Ø 32	31.10	43.30	18.00	58.00	98.00	109.00
Ø 40	39.00	52.60	21.00	70.00	135.00	137.00
Ø 50	49.00	66.80	24.00	71.00	151.00	135.00
Ø 60	61.90	83.20	28.00	85.00	157.00	143.00

4- ARAIB BALL VALVE SET

Ref: Acc. to DIN 16962, SASO-ISO15874



ITEM	d (In mm)	D (In mm)	z (In mm)	L (In mm)	h (In mm)
Ø 32	24.20	34.30	18.00	124.50	107.00

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