



QUALITY ASSURED



ShiftAir

Beyond the limits..

Modular Compressed Air Piping System



AN
ISO 9001:2008
CERTIFIED COMPANY

About

ShiftAir

For a long time, Compressed Air is one of the most widely used forms of Energy in the Industry, globally. Its biggest advantage being that it is a 100% renewable source of energy. However its main drawback (while using the conventional GI pipes) was that almost one third of the total compressed air generated, got wasted on account of Leakages and Pressure Drop. Lacs of rupees literally flowing out in thin air.

ShiftAir Modular Aluminium Piping System, launched in the year 2006, has been providing solutions to eliminate / minimise the wastage of Compressed Air through use of ShiftAir Aluminium Pipes and ShiftAir Fittings. The wastage of Compressed Air in conventional G I Piping System is mainly on account of Corrosion of Pipes and use of Threaded Joints to join Pipes and Fittings. ShiftAir provides the optimum solutions to these problems.

ShiftAir Pipes are made of Aluminium (high strength construction grade Alloy 6063) with another very important feature that it has a very superior surface finish resulting in almost no corrosion and greatly reduced friction to the flow of Compressed Air. The outer Surface of these Pipes are again Powder Coated to provide them protection from corrosive environment and also for easy Identification of the Air Line.

ShiftAir fittings, made of high strength Industrial Polymers, have a smart very Rigid clamping System which totally eliminates the use of threaded joints.



Technical Specifications

ShiftAir Pipes and Fittings give their best performance under following conditions:

Working Pressure	16 Kg/ cm ² .
Temperature	From -20°C to 60°C.
Working Fluids	Compressed Air / Vacuum / Inert Gases (Including Argon).
ShiftAir Pipes	Made of High strength Aluminium Alloy 6063 with Quality Certified Blue Color Powder Coating on the outer surface.
ShiftAir Fittings	Made of High Strength Industrial Engineering Polymers having special Stainless steel (SS 316) Clamping System.
ShiftAir Mini Pipes	Made of Industrial Polymer PA-6 with no scope of corrosion at all and having very high strength and very smooth Inner Surface.
ShiftAir Mini Fittings	Made of very High Quality Brass with very secure Push Fit Clamping System.



FREE REPLACEMENT ASSURANCE CERTIFICATE

Shift Air Pneumatics hereby gives a Free Replacement Assurance for a period of Ten Years from the date of installation / purchase of ShiftAir Aluminium Pipes and ShiftAir Fittings for their failure on account of any defect in their manufacturing or material used.

On receipt of a complaint, before the sanction of the free replacement, ShiftAir technical team shall visit the site to ascertain that failure is on account of manufacturing defect or material defect only. For this purpose our Team should be provided access to the site of the failed ShiftAir product.

The Free Replacement Assurance shall be void if-

The product has been damaged due to application of external force.

The original installation has been modified without the approval of ShiftAir. Consumables like PU Tubes, Air Dispensing Guns and other items which are not of ShiftAir make shall remain excluded from the scope of this Free Replacement Assurance.

The liability of ShiftAir Pneumatics under this FREE REPLACEMENT ASSAURANCE CERTIFICATE is exclusively limited to replacement of parts only.

Benefits of

Huge Savings In Cost

- No Corrosion.
- Minimum pressure drop & leakages.
- Optimum Compressed Air utilization.

ShiftAir

Modular Design

- Highly Flexible & Quick Installation.
- Very Strong & Smart Clamping.
- No wastage-100 % Reusable on Shifting.
- Superior Aesthetic Appearance.



Product Name	Code	Size mm
RIGID NYLON PIPE	SAR RNP 1600	D16
RIGID NYLON PIPE	SAR RNP 2000	D20



Product Name	Code	Size mm
EQUAL UNION	SAR MEU 1600	16 X 16
EQUAL UNION	SAR MEU 2000	20 X 20



Product Name	Code	Size mm
REDUCING UNION	SAR MRU 2016	20 X 16



Product Name	Code	Size mm
MALE THREAD CONNECTOR	SAR MMC 0516	16 X 1/2"
MALE THREAD CONNECTOR	SAR MMC 0720	20 X 3/4"



Product Name	Code	Size mm
EQUAL ELBOW	SAR MEE 1600	16
EQUAL ELBOW	SAR MEE 2000	20



Product Name	Code	Size mm
EQUAL TEE	SAR MET 1600	16 x 16 x 16
EQUAL TEE	SAR MET 2000	20 x 20 x 20



Product Name	Code	Size mm
END CAP	SAR MEC 1600	16
END CAP	SAR MEC 2000	20



Product Name	Code	Size mm
WALL PLATE ELBOW	SAR MWE 0516	16 x 1/2" F
WALL PLATE ELBOW	SAR MWE 0720	20 x 3/4" F



Product Name	Code	Size mm
ALUMINIUM PIPE	SAR AP 2512	D25
ALUMINIUM PIPE	SAR AP 4012	D40
ALUMINIUM PIPE	SAR AP 6312	D63



Product Name	Code	Size mm
MALE THREAD CONNECTOR	SAR ME 0725	25 X 3/4"
MALE THREAD CONNECTOR	SAR ME 1025	25 X 1"
MALE THREAD CONNECTOR	SAR ME 1040	40 X 1"
MALE THREAD CONNECTOR	SAR ME 2063	63 X 2"



Product Name	Code	Size mm
EQUAL UNION	SAR EU 2500	25 X 25
EQUAL UNION	SAR EU 4000	40 X 40
EQUAL UNION	SAR EU 6300	63 X 63



Product Name	Code	Size mm
EQUAL ELBOW	SAR EE 2500	25 X 25
EQUAL ELBOW	SAR EE 4000	40 X 40
EQUAL ELBOW	SAR EE 6300	63 X 63



Product Name	Code	Size mm
EQUAL TEE	SAR ET 2500	25 X 25
EQUAL TEE	SAR ET 4000	40 X 40
EQUAL TEE	SAR ET 6300	63 X 63



Product Name	Code	Size mm
FEMALE TEE	SAR FT 0725	25 X 3/4"
FEMALE TEE	SAR FT 1040	40 X 1"
FEMALE TEE	SAR FT 2063	63 X 2"



Product Name	Code	Size mm
END CAP	SAR EC 2500	25
END CAP	SAR EC 4000	40
END CAP	SAR EC 6300	63



Product Name	Code	Size mm
PIPING BALL VALVE	SAR BV 2500	25 X 25
PIPING BALL VALVE	SAR BV 4000	40 X 40
PIPING BALL VALVE	SAR BV 6300	63 X 63



Product Name	Code	Size mm
TERMINAL BLOCK	SAR TB 05	G1/2"



Product Name	Code	Size mm
BSP TWIN TAKE OFF COUPLING	SAR TT 0525	D25 X1/2"



Product Name	Code	Size mm
FLEXIBLE LINK	SAR FL 25145	25 X 1450
FLEXIBLE LINK	SAR FL 40145	40 X 1450
FLEXIBLE LINK	SAR FL 10145	63 X 1450
FLEXIBLE LINK	SAR FL 2555	25 X 550



Product Name	Code	Size mm
COLLAR	SAR CD 2500	25
COLLAR	SAR CD 4000	40
COLLAR	SAR CD 6300	63



Product Name	Code	Size mm
THREADED HANGER	SAR TH 2500	25
THREADED HANGER	SAR TH 4000	40
THREADED HANGER	SAR TH 6300	63



Product Name	Code	Size mm
PIPE WRENCH	SAR PW 2500	25
PIPE WRENCH	SAR PW 4000	40
PIPE WRENCH	SAR PW 6300	63



Product Name
CHAMFERING TOOL

Code
SAR CT 2550

Size mm
D25-D50



Product Name
DEBURRING TOOL

Code
SAR DT 2563

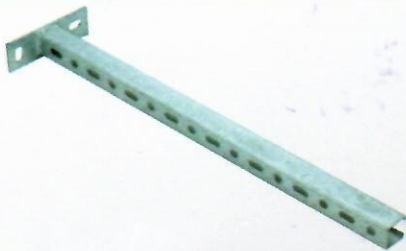
Size mm
D25-D63



Product Name
ANCHOR SCREW

Code
SAR AS 0808

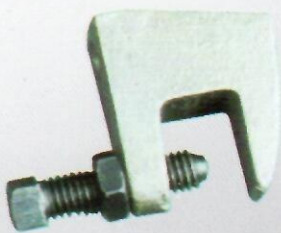
Size mm
M 8



Product Name
WALL MOUNTED BRACKET
WALL MOUNTED BRACKET

Code
SAR WB 3030
SAR WB 4040

Size mm
300 L
600 L



Product Name
I SECTION CLAMP

Code
SAR IC 0808

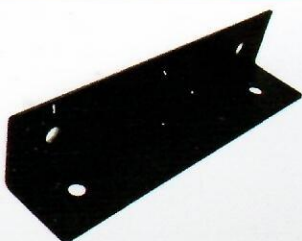
Size mm
M 8



Product Name
THREAD STUD

Code
SAR TS 0808

Size mm
M 8 x 800



Product Name
HORIZONTAL SUPPORT PLATE

Code
SAR AI 0101

Size mm
I M



Product Name	Code	Size mm
WIRE HANGER	SAR WH 0303	1M



Product Name	Code	Size mm
PIPE CUTTER	SAR PC 2563	25-63



Product Name	Code	Size mm
PIPE CLAMP	SAR PC 2500	25
PIPE CLAMP	SAR PC 4000	40
PIPE CLAMP	SAR PC 6300	63



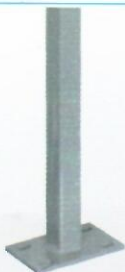
Product Name	Code	Size mm
AIR GUN	SAR AG 04	G1/4"



Product Name	Code	Size mm
HOSE REELS	SAR HR 5085	5 X 8 X 5
HOSE REELS	SAR HR 8125	8 X12 X 5



Product Name	Code	Size mm
AIR PREPATION UNIT	SAR APU 05	1/2"
AIR PREPATION UNIT	SAR APU 07	3/4"
AIR PREPATION UNIT	SAR APU 10	1"



Product Name	Code	Size mm
VERTICAL SUPPORT BRACKET	SAR VB 2500	1 MTR.

Pipe Diameter Selection Guide

- THIS GUIDE HELPS TO SELECT OPTIMUM DIAMETER FOR YOUR PIPING SYSTEM BASED UPON THE LENGTH OF THE MAIN HEADER AND THE VOLUME OF THE COMPRESSED AIR (CFM).
- THE PRESSURE DROP, WITH THE DIAMETER SO SELECTED, SHALL BE MAX 5%.
- THIS GUIDE IS FOR CLOSED PIPING SYSTEM.

FLOW RATE		PIPE DIAMETERS (mm) FOR DIFFERENT LENGTHS (mtrs)									
Cu m/hr	cfm	50	100	150	300	500	750	1000	1300	1600	2000
10	6	16	16	20	20	20	20	20	25	25	25
30	18	16	20	20	25	25	25	25	25	25	40
50	29	20	25	25	25	25	25	40	40	40	40
70	41	25	25	25	25	40	40	40	40	40	40
100	59	25	25	25	40	40	40	40	40	40	63
150	88	25	40	40	40	40	40	40	63	63	63
250	147	40	40	40	40	63	63	63	63	63	63
350	206	40	40	40	63	63	63	63	63	63	76
500	294	40	40	63	63	63	63	63	76	76	76
750	441	40	63	63	63	63	76	76	76	76	100
1000	589	63	63	63	63	63	76	76	100	100	100
1250	736	63	63	63	76	76	76	100	100	100	100
1500	883	63	63	63	76	76	100	100	100	100	100
1750	1030	63	63	76	76	100	100	100	100	100	100
2000	1177	63	76	76	76	100	100	100	100	100	150
2500	1472	63	76	76	100	100	100	100	150	150	150
3000	1766	76	76	100	100	100	100	100	150	150	150

Example for Selection of Diameter as per above chart

- FOR A HEADER LENGTH OF UPTO 50 MTRS AND A VOLUME OF 15 CFM, THE RECOMMENDED PIPE DIAMETER IS 16 mm
- FOR A HEADER LENGTH OF UPTO 250 MTRS AND A VOLUME OF 350 CFM, THE RECOMMENDED PIPE DIAMETER IS 63 mm

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