ANJNEY
PPCH PNEUMATIC PIPING

Create energy by saving energy (PREVENT AIR Loss)

AIR LEAK PROOF

50 YEARS LIFE

CORROSION RESISTANCE

100% MAINTENANCE PROOF

Pneumatic Piping For Cold and Hot Air Transmit.

Past Scenario - Conventional Pneumatic Piping System (Metal Pipes)

Did you know? When the mixture of air & water generated in the Air plant passes through the G.I. or other Metal pipeline it creates friction in the rough internal surface of the pipeline, which not only damage the pipe internally but also gradually leads to rusting & ultimately leakage in the line.

2004 Various manufacturers develop PPRC pipe fittings for domestic application, where as ANJNEY launch PPRC Pneumatic piping system

Many pipe manufacturers are offering **PPRC** pipes & fittings for domestic water supply application whereas we had deployed R & D efforts to develop **PPRC** Pneumatic piping system an ideal pipe fitting for air line and other penumatic application. In last five years, we have successfully supplied & intalled **PPRC** Piping system for various leading brands Air-Compressor piping & Pneumatic applications.

2008 ANJNEY Upgraded Pneumatic Piping System (PPCH)

Now inline to our motto to cater better products to our customer, we have developed a unique piping system PPCH Pipe & Fittings with improved solutions for Sagging & Thermal Expansion.
Through a synergy of our industrial Piping experience so far, practical knowledge & testing efforts as India's leading laboratory, we have developed a unique combination for PPCH Pneumatic system made of Homopolymerized raw material & additives supplied by World's leading polymer resin manufacturer. Taking into consideration the working environment of Air Plants, we had scrutinized every feature of this polymer (Polypropylene), to enhance its performance. As a result, our PPCH Piping system have following enriched features :

- High resistance against thermal expansion
- Very low sagging chances, due to the unique high-grade PPCH resin used
- Reduced need for clamping for the pipeline
- International color code - (BLUE)

We are the Pioneer in manufacturing of Polymer Pipes for Air-Compressor Piping & Other Pneumatic applications, through the launch of "ANJNEY" PPRC Pneumatic Piping System in 2004. We are catering our products for Air-Compressor & Other Pneumatic piping needs since last 5 years, in which we have successfully supplied & commissioned our "ANJNEY" Pneumatic Piping system for more than 450 industries.

Air compressor piping & other pneumatic applications

Create energy by saving energy (PREVENT AIR Loss)

Now with future vision to provide better products to our customers, we upgraded our PPRC Piping system with PPCH, with advance features compatible to pneumatic applications. In fact we have made successful installation of our piping system in many leading Air Compressor brands for their Air Compressor internal & external piping system. As PPCH Piping System is an advance product to PPRC Piping, it would definitely yield better result.

What you have lost so far by using conventional (Metal) piping system in air transmit?

As we are aware airline widely exists in different kinds of industries & pipeline is a major concern, as an inefficient pipeline could harshly reduce & damage the pressure & effectiveness of entire Air Plant. Generally G.I. Pipeline is installed for Airline application with a misapprehension that G.I. Would yield maximum performance with respect to its metal strength.

But did you know ? A mixture of air & water is generated in the Air plant. Further when this mixture passes through the G.I. Or other metal pipeline, it creates friction in the rough internal part of the pipeline, which not only damages the pipe internally but also gradually leads to rusting & ultimately leakage in the line.

Your Piping Dilemmas

Leakage in Air line & other pneumatic Piping

Cost incurred due to compressed Air leakage (approx.)

Leakage Size (mm)	Energy Loss (KW)	*Cost of Air Leakage (Rs./Year)
0.8	0.2	8,000/-
1.6	0.8	32,000/-
3.1	3.0	1,20,000/-
6.4	12.0	4,80,000/-

*Based on Rs. 5/KWH; 8000 operating hours; air at 7.0 bar pressure (Source: CII)

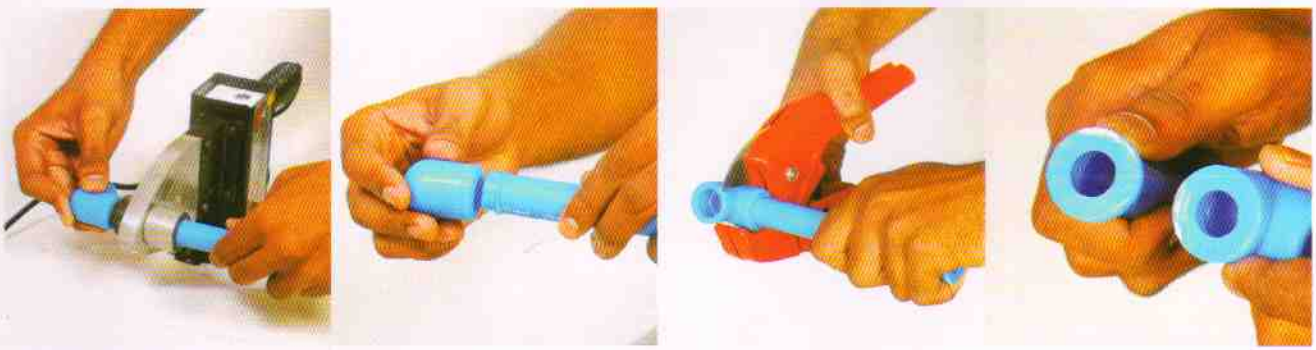
Being Polymer based products nil chance of Corrosion & Erosion

As per our observation in last 5 years, generally there are nearly 10 leakages in 100 mtr. pipe, with 0.8mm leakage. Cost nearly Rs. 8,000/- per joint annually Minimum 10 Joints X 8,000 = Rs. 80,000/-

Further based on the above calculation you can comprehend as below :

(1) 0.5 Year energy saving would lead to cost saving in monetary terms equivalent to the cost of entire PPCH Piping system.
(2) 2 Year energy saving would lead to cost saving in monetary terms equivalent to the cost of a new Air - Compressor.

Our Solution through Innovative Piping System



PPCH Pneumatic Piping System with almost 0% Leakage chances

Comparison

ANJNEY
PPCH PNEUMATIC PIPING

Comparison of PPRC Plumbing Pipe with ANJNEY PPCH Piping.

PPRC Pipeline	PPCH Pipeline
1. Normal Thermal Expansion	1. Low Thermal Expansion compared to any Polymer Pipe & even PPRC Pipeline
2. Sagging Problem as usual in Polymer pipes	2. Very low sagging chances compared to other polymer pipes
3. Moderate requirement of Clamping	3. Clamping requirement 40% less than PPRC
4. Follows Green-Color Code, which is represented for Water application	4. Follows Blue-Color Code as per International Pneumatic Piping Standards.,
5. It is specially designed for hot and cold water application.	5. Through continuous R & D, ANJNEY has developed special grade of polymer, which has been used to manufacture PPCH Pneumatic Piping.

Comparison of other metal pipes with ANJNEY PPCH Pneumatic Piping.

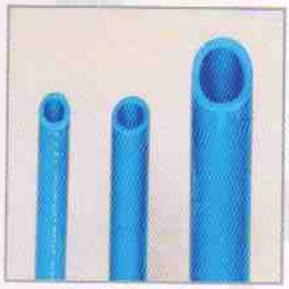
Properties	GALVANISED	S.S.	Composite Pipes	PPCH
Jointing Method	Threaded Joint	Solvent Cement	Push Fit Joints	Fusion Welding
Joints Strength	Great Possibility of Leakages	Fair Possibility of Leakage	Low Strength compared to socket welding.	Leakage Proof & indissoluble Joints
Installation	Time consuming & Expensive	Time consuming & Highly Expensive	Skilled labour required	Effortless installation & inexpensive
Plumber Skillfulness	Efficient Plumber required	Experienced Plumber required	Experienced Plumber required	Easy Fusion jointing by any plumber
Corrosion Resistance	Worst	Average	Good	Outstanding
Temperature Resistance	Good	Very Good	Up to 60 degree.	Very Good
Inner Surface Smoothness	Rough Surface	Semi Smooth	Excellent smoothness	Excellent smoothness with Energy saving
Friction Loss	High Friction loss due to rough surface	Average friction loss	Average friction loss	No chances of friction loss.
Air Leakage	Leakage from threaded joints	Leakage from threaded joints	Chances of leakage due to Push Fit Joints	0 % leakage due to Socket Fusion Welding.
Maintenance	Major expense is of maintenance	Major expense is of maintenance	Major expense due to inferior quality	Nil maintenance

WALL THICKNESS OF PPCH PIPE. AS PER DIN 8077 / 8078 STANDARD

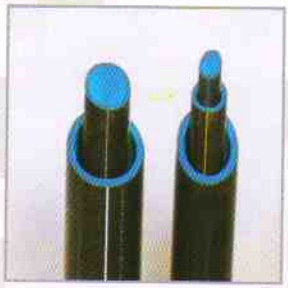
Nominal Diameter	SDR 11 PN 10		SDR 7.4 PN 16		SDR 6 PN 20	
DN	MIN	MAX	MIN	MAX	MIN	MAX
20 MM	1.90	2.30	2.80	3.30	3.40	4.00
25 MM	2.30	2.80	3.50	4.10	4.20	4.90
32 MM	2.90	3.40	4.40	5.10	5.40	6.20
40 MM	3.70	4.30	5.50	6.30	6.70	7.60
50 MM	4.60	5.30	6.90	7.80	8.30	9.40
63 MM	5.80	6.60	8.60	9.70	10.50	11.80
75 MM	6.80	7.70	10.30	11.60	12.50	14.00
90 MM	8.20	9.30	12.30	13.80	15.00	16.70
110 MM	10.00	11.20	15.10	16.90	18.30	20.40
* 125 MM	11.40	12.80	17.10	19.10	20.80	23.10
* 140 MM	12.70	14.20	19.20	21.40	23.30	25.90
160 MM	14.60	16.30	21.90	24.30	26.60	29.50

Range of Products

"ANJNEY" PPCH Pipes (As per Din 8077/78)
"ANJNEY" PPCH Fittings (As per 16962 - Part 5 to 10)



Single layer Pipe
20 mm to 160 mm - PN10, PN16, PN20



Double layer Pipe
20 mm to 160 mm - PN10, PN16, PN20

Coupler
20mm to 160mm - PN20

Core Flange /Long Neck Collar
20mm to 160 mm – PN20

Elbow
20 mm to 160 mm - PN20

Equal Tee
20mm To 160 mm- PN20

End Cap
20 mm to 160 mm – PN20

Step Flange
20 mm to 160 mm

Reducer
20mm to 160mm

Reducing Tee
20mm to 160mm

Male Threades Joint / Adaptor
20mm*1/2"/ 20mm*3/4"/
25mm*1/2"/ 25mm*3/4"/
32mm*1/2"/ 32mm*3/4/
32mm*1"/ 40mm*1.1/4"/
50mm*1.1/2"/ 63mm*2"

Female Threaded Joint / Adaptor
20mm*1/2"/ 20mm*3/4"/
25mm*1/2"/ 25mm*3/4"/
32mm*1/2"/ 32mm*3/4/
32mm*1"/ 40mm*1.1/4"/
50mm*1.1/2"/ 63mm*2"

Male Threaded Elbow
20mm*1/2" / 20mm*3/4"
25mm*1/2" / 25mm*3/4"
32mm*3/4" / 32mm*1"

Female Threaded Elbow
20mm*1/2" / 20mm*3/4"
25mm*1/2" / 25mm*3/4"
32mm*3/4" / 32mm*1"

Male Threaded Tee
20mm*1/2" / 20mm*3/4"
25mm*1/2" / 25mm*3/4"
32mm*3/4" / 32mm*1"

Female Threaded Tee
20mm*1/2" / 20mm*3/4"
25mm*1/2" / 25mm*3/4"
32mm*3/4" / 32mm*1"

Why should you recommend our product ?

Project Consultant

1) **Energy Saving :** Due to 0% leakage in **"ANJNEY" PPCH** Pneumatic Piping system you can definitely save 30% to 40% of your electricity consumption, which would be a major monetary saving.

2) **Pay-Back of Piping : "ANJNEY" PPCH** Pneumatic Piping system has very much low Pressure-Loss in comparison to Metal pipes which would generate savings equivalent to the entire Piping cost in 6 months & Air-Compressor in 1 Year.

3) **No Pressure Loss :** Air pressure CFM at starting-point, would get reduced at each leak points (Pressure Loss) & would be low at the ending-point **"ANJNEY" PPCH** Pneumatic Piping will remove this negativity.

4) **Efficient working of Air Compressor :** As the leakages reduce the pressure at end-point, the Air-Compressor would require more Start-up & consume additional electricity. On using **"ANJNEY" PPCH** Pneumatic Piping system, this dilemma is eliminated.

Air-Compressor Manufacturer

1) **Inferior Piping Affects Brand Image :** Incase if inferior piping system is installed in your Air-Compressor, than the customer would mostly blame the Air-Compressor for poor performance due to higher air leakages.

2) **Reduced requirement for Servicing air compressor :** For after sales & service Company had its own authorized dealer & representative in most of the cities, but due to better performance because of **PPCH piping**, requirement of after sales service will be lessened.

3) **Corrosion effect on Compressor and accessories :** The corrosion & leakages in the metal pipes affect different accessories of the Air-Compressor plant (like Dryer, Cylinder, Valve & other fittings). This is not with the corrosion free PPCH piping.

Air-Compressor Dealers

1) **Increase compressor life, reduce overheads :** High Pressure-loss in Metal piping leads to more start-up daily, which cause high maintenance in Air-Compressor, Moreover as the maintenance is the Dealers responsibility this turnouts to be a increase in commercial burden.

2) **No involvement as no maintenance :** Main reasons for maintenance in airline piping is due to high leakage & Corrosion, but as ANJNEY **PPCH** Pneumatic piping system ensures 0% leakage & Corrosion chances, the maintenance reduces drastically & increases life expectancy of Air-Compressor.

3) **Win Satisfaction Without Expenditure :** As it is an innovative product, company offers Free trial installation at any of your application for Customer satisfaction.

4) **Long Life Guarantee :** The Company offers 5 to 25 years Life Guaranty for customer assurance for PPCH Pneumatic Piping system.

5) **One step solution :** Moreover to reduce the customer involvement & burden on project, we undertake the entire project of Supply, Commissioning & installation of **PPCH Pneumatic Piping** system.

6) **Earn Profit on Profit : PPCH Pneumatic Piping** gives maintenance free life, consequently leading to saving expenditure on maintenance of compressor, increasing your profit, in addition to suggesting our product.