

ashirvad dynaflo

SMART REPLACEMENT OF DI PIPES



Higher hoop strength
enables thinner walls
& higher flow



Energy-efficient
pumping due to
ultra-smooth bore



Lightweight for faster
installation and lower
logistics cost

ELEVATE YOUR PROJECTS WITH ASHIRVAD DYNAFLO

As India's influence grows on the global stage, so does the need for infrastructure that stands strong amidst challenging conditions. A steadfast foundation is essential for our nation's progress, and at Ashirvad, we are committed to shaping the future with innovative solutions. Introducing ashirvad dynaflo from house of Ashirvad – a revolution water transmission piping systems designed to overcome the challenges with conventional system challenges.

ENGINEERED TO EMBRACE EXCELLENCE

At Ashirvad, innovation and purpose drive our endeavors. With unwavering dedication to Provide quality products , we proudly present Ashirvad dynaflo, an O-PVC pipe that redefines performance standards. This cutting-edge solution overcomes challenges with conventional systems and provides better solution in terms of flow rate, ease of installation, easy product handling (to name a few) aiming towards sustainable solution for water transmission.

PVC-O IS MADE BY REALIGNING THE PVC MOLECULES THROUGH A PROCESS OF BIAXIAL ORIENTATION

 High flow capacity	 High impact strength	 High toughness	 Excellent damage tolerance	 Material and energy efficient - more environmentally sustainable
 Light weight	 Corrosion resistant	 No adverse effect on water quality	 Reduced Occupational Health and Safety risks	

AVAILABLE RANGE & SPECIFICATION

Ashirvad Dynaflo [®] PVC-O500 Pipe										
Nominal Pressure (Bar)		PN12.5		PN16		PN20		PN25		
Nominal Diameter (DN)	Outside Diameter (OD)		Inside Diameter (ID)	Wall Thickness C1.6(e)	Inside Diameter (ID)	Wall Thickness C1.4(e)	Inside Diameter (ID)	Wall Thickness C1.4(e)	Inside Diameter (ID)	Wall Thickness C1.4(e)
	min.	max.	average	min.		average		min.		average
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
110	110.0	110.4	105.8	2.3	104.5	2.6	103.2	3.2	101.6	4.0
160	160.0	160.5	154.0	3.3	152.3	3.7	150.4	4.6	147.9	5.8
200	200.0	200.6	192.5	4.1	190.4	4.6	188.1	5.7	184.9	7.2
250	250.0	250.8	240.7	5.1	238.0	5.8	235.0	7.2	231.3	9.0
315	315.0	316.0	303.3	6.4	300.1	7.2	296.4	9.0	291.3	11.4
400	400.0	401.2	385.2	8.1	381.0	9.2	376.4	11.4	370.1	14.4

*Fittings available on request

Dynaflo PVC-O pipes are supplied in total length of 6.0 metres (including the length limit mark for the socket). The inside diameters may be subjected to variation according to manufacturing tolerances as per IS 16647:2017

COMPARISON OF TECHNICAL CHARACTERISTICS

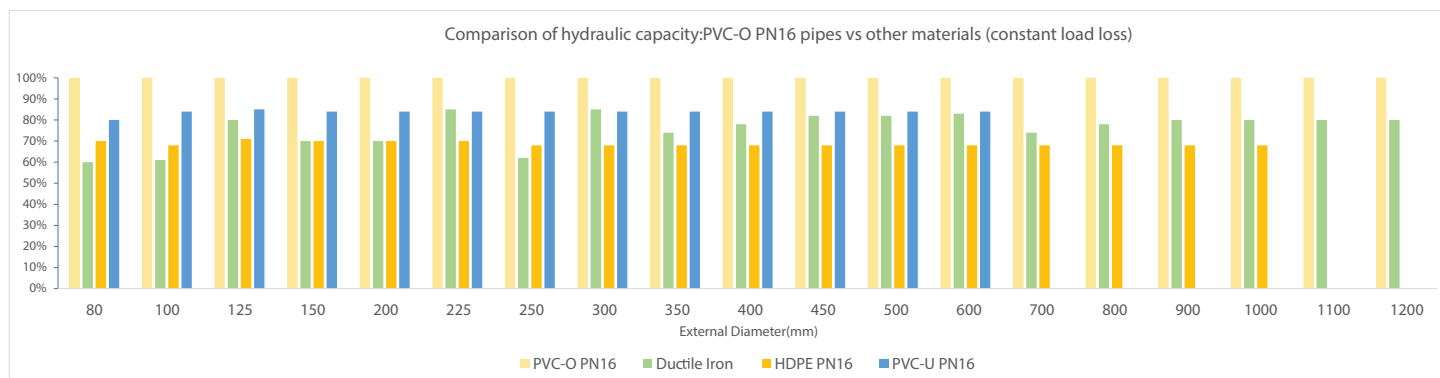
Product Standard	Units	Dynaflo PVC-O 500	PVC	HDPE - 100	HDPE - 80
		IS 16647: 2017	IS 4985: 2021	IS 4984: 2022	IS 4984: 2022
Minimum required strength (MRS)	MPa	50	25	10	8.0
Overall service coefficient (C)	-	1.4 & 1.6	2.0*	1.25	1.25
Design stress (σ)	MPa	36	12.5	8.0	6.3
Short term elasticity modulus (E)	MPa	>4,000	>3,000	1,100	900
Resistance to uniaxial traction	MPa	≥48	≥45	19	19
Resistance to hoop traction	MPa	>85	≥45	19	19
Shore hardness D at 20 °C	-	81-85	70-85	60	65

(*) For pipes with a DN ≥110.

- The long term hydrostatic strength of PVC-O is up to twice that of ordinary PVC-U materials
- Taking advantage of this superior strength allows the same pressure class of pipe to be manufactured with a larger bore

HYDRAULIC CAPACITY

Water pipes requirements are not only related to pressure resistance; they also have to transport the highest amount of water while consuming the least energy. Ashirvad dynaflo pipes walls are thinner than conventional plastic ones and are on their inside smoother than metal, which means that a greater hydraulic capacity is attained.



Using pipes with a lower hydraulic capacity involves necessarily using a larger nominal diameter, which has a negative effect on both profitability and infrastructure investment costs. Using Dynaflo means you get more hydraulic capacity from your investment costs.



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Ashirvad Pipes Pvt. Ltd.

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