

Data Sheet

Cylinders - Tie Rod Cylinders

A271003000

A27 Series - Double Acting Cylinder



Technical Specification

Product Description	DA 100 x 300 Cyl.(Mag) Basic
Large Description	• A271003000 • DA 100 x 300 Cyl.(Mag) Basic • Magnetic • Adjustable cushioning at both ends
Cylinder Bore {mm}	100
Stroke {mm}	300
Cushioning Stroke (mm)	028
Mode of Operation	Double Acting
Dimensional Standard	ISO 15552 / VDMA 24562
Cushioning Method	Adjustable cushioning at both ends
Position Detection	Magnetic
Medium Temperature °C	5 °C to 50 °C
Medium Temperature °F	41 °F to 122 °F
Materials of Construction	Aluminium, Brass, Steel, Acetal, Polyurethane, Nitrile (Regular)
Pneumatic Connection	G1/2
Piston Rod Diameter (mm)	025
Piston rod Thread Size	M20 x 1.5
Theoretical force at 0.6 MPa(6 Bar,87 PSI), Retract stroke (Force in N) 1N = 0.1 kgf	3976

Theoretical force at 0.6 MPa(6 Bar,87 PSI), Extend stroke (Force in N) 1N = 0.1 kgf	4241
Seal Kit Part Number	SK0056
Optional Features	Basic
Optional Mountings	Basic
Optional Accessories	None
Magnetic Sensor	AM1080
Connectors	• R1/2 x Dia 10-OD Tubing • R1/2 x Dia 12-OD Tubing
Tubes	Dia 10 & Dia 12
Flow Control Valves	• R1/2 x Dia 10-OD Tubing • R1/2 x Dia 12-OD Tubing
Catalogue Dim (L)	533
Catalogue Dim (B)	111
Basic weight for 0 mm stroke	Nil
Additional weight per 10 mm stroke	Nil
Additional weight per mm stroke[kilograms]	Nil
Product Weight [kilograms]	Nil
Product Weight [pounds]	6.4
Package size L x B x H (mm)	14.11
Package size L x B x H (inch)	Nil
Operating Medium	Compressed air – Filtered – Lubricated
Working Pressure (bar)	0.5 to 10
Working Pressure (psi)	7.25 to 145
Working Pressure (MPa)	0.05 to 01
Ambient Temperature °C	-10 °C to +60 °C
Ambient Temperature °F	14 °F to 140 °F
Cylinder Type	Tie Rod Cylinder
Cushion Pad	Elastomer
Piston-rod end	Male Thread
Variants	Piston rod at one end

Features	• Adjustable cushioning at both ends • Wide varieties of mountings • Magnetic and Non magnetic version • Optional - High temperature (FKM seals) 150°C max. ** • Optional - Non corrosive Stainless steel piston rod and piston rod lock nut (SS 304) **
Shelf Life	Nil
Temperature Storage Range Low °C	-10 °C
Temperature Storage Range Low °F	14 °F
Temperature Storage Range High °C	+60 °C
Temperature Storage Range High °F	140 °F
REACH	Nil
ROHS	Nil
Types of Mountings	Basic Cylinder, Foot Mounting, Front Flange, Rear Flange, Male Clevis, Male Clevis (with Spherical bearing), Female Clevis, Female clevis (King pin), Front trunnion, Rear trunnion, Center trunnion
Types of Accessories	Clevis foot bracket, Clevis foot bracket (spherical), Wall mounting bracket, Trunnion bracket, Rod end fork, Rod end aligner, Rod end spherical eye
HSN Code	84123100
Unit of Measurement	No's
Minimum Order Quantity	1
Is this part Made-to-Order?	Yes
Inner Package Quantity	1
Manufacturer Name	Janatics India Private Limited
Brand Name	Janatics
Countries of Origin	India
Note 1	Cylinder with centre trunnion is factory fitted.
Note	For Non standard or longer stroke cylinders, contact your Regional office or Regional dealer or Janatics India