Stopper Cylinder(Backward direction lever lock release type)

Series NST2

Bore Size : Ø50



- Lever position changeable by 90(degrees) for 4 directions
- Built-in shock absorber easy for maintenance and replacement
- Single-action, Double-action, Double-action (spring lead-in type)
- Auto switch of super-compact type can be attached
- Lever lock can be released for pallet of reverse direction motion

Symbol



Double-action



Single rod of single-action type / Backward motion type



double-action (spring) type



Product specification				
		ASTH		
Acting	Single-acting, Double-acting, Double-acting (spring lead-in type)			
Fluid	Air	NLPD		
Proof pressure	1.5 MPa(15kgf/cm²)	NLCD		
Range of Operating pressure	0.1 MPa(1kgf/cm ²)~1.0MPa(10kgf/cm ²)	NLCS		
Ambient and fluid temperature	-5°C ~ 60°C (But, no freezing required)	ASL		
Fueling	None	NRP		
Cushion	Rubber			
Allowable tolerance of stroke length	0~ +1.4	NRT		
		NRC		
Mounting	Flange			
AUTO S/W(Option)	Auto switch of super-compact attached type			

Composition specificationFLANGE COVER
TYPESTROKE(mm)Weight(30st)Bore SizeRemarksLA25, 30, 402.17 KgØ32LC302.18 KgØ32

NST2



NST2 Series

Construction / Parts List

Ø50



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NO	Description	Material		Note
0	TUBE	Aluminum alloy	1	
2	ROD COVER	Aluminum alloy	1	
8	PISTON	Aluminum alloy	1	
4	PISTON ROD	Carbon steel	1	
6	HEAD COVER	Aluminum alloy	1	
6	GUIDE ROD	Carbon steel	1	
0	LEVER	Carbon steel	1	
8	LEVER HOLDER	Carbon steel	1	
9	LEVER SPRING	Spring steel	1	
0	BUMPER	NBR	2	HEAD, ROD
Ð	ROLLER PIN	Carbon steel	1	
Ø	LEVER PIN	Carbon steel	1	
ß	ROLLER	MC Nylon	2	
Ø	WASHER	Rolled steel	2	
₿	WASHER	Rolled steel	2	
G	SPLIT PIN	Wrought steel	2	
Ø	SPLIT PIN	Wrought steel	2	
₿	C SNAP RING	Spring steel	1	
⑲	WEARING	Resin	1	
20	PISTON PACKING	NBR	1	
0	GASKET	NBR	2	ROD COVERS, HEAD COVERS
2	ROD PACKING	NBR	1	
23	Six angles hole stop SCREW	Carbon steel	1	
@	Six angles hole stop SCREW	Carbon steel	1	
25	MAGNET RING	NBR	1	
26	SHOCK ABSORBER		(1)	
Ø	DAMPER		(1)	
28	Six angles hole stop SCREW	Carbon steel	(1)	
29	DU BUSH	Lead Bronce	1	
30	0 – RING	NBR	2	
0	Six angles hole BOLT	Carbon steel	4	25sť :95ℓ, 30sť :100ℓ, 40sť :110ℓ
0	PORT PLUG		2	
8	Fixing BOLT	Carbon steel	(1)	OPTION
٢	RELEASE LEVER	Carbon steel	(1)	OPTION
6	HOOK	Carbon steel	(1)	OPTION
٢	STOPPER BLOCK	Aluminum alloy	(1)	OPTION
Ø	Six angles hole BOLT	Carbon steel	(1)	OPTION
€	PLATE BUMPER	Urethane	(1)	OPTION
69	SPACER	Aluminum alloy	(1)	OPTION
0	RETURN SPRING	Spring steel	1	
0	PLUG WITH FIXED ORIFICE		(1)	OPTION

Part List

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Stopper Cylinder(Backward direction lever lock release type) **NST2** Series

Dimensions NST2LA50 (Standard) 4-Ø9 HOLE Thru 4-*Ф*14 HOLE DP:8 ŝ $\overline{\bigcirc}$ Ó \oplus \odot 0 5 64 56 75 С ¢ \oplus \bigcirc <u>50</u>±0.4 90 67 115 VIEW "A" 19 35 F PALLET Bottom 16.3 Ø20 STROKE 3.6 A 0 ω ¢ O 2-Rc(PT)1/8 Φ32 23 19.8 10 ٢ Ð \odot **≜** "A" Unit (mm) Dim А В С St. 25 87.2 129 108 30 92.2 134 113 40 102.2 144 123

NST2 Series

Dimensions

NST2LC50(Rod Cover Square type)







Stopper Cylinder(Backward direction lever lock release type) **NST2** Series

Stopper Cylinder Selection Process



Precaution

Please be fully aware before using Please read the notice(Page 36) for safety.

Selection

- When lever is in standing up position, do not make collision with pallet.
- when lever is in standing up position in shock absorber's inner lever type, in case pallet collides with it, energy is absorbed to the cylinder body, therefore, don't make collision happen.
- Please make sure no not to scratch the Connection parts.
- piston rod is not hardened, so damage can be occurred if connection part of pallet is sharp. In case of this, do not use. It causes non-function.

- When stopping temporarily loay which is be absorbed to cylinder in Stopper cylinder.
- Within the range of usage of CAT. Just use when stopping the pallet.

In case of stopping the stopper cylinder, if the cylinder impellent force becomes horizontally lowered, please contact us.

Mounting

- Do not give the rotation torque to cylinder rod.
- Contact area of cylinder should be parallel to contact area of pallet in order not to cause rotation torque on the cylinder rod.



Operation

- Do not make outside force after lever locking when attaching a lever type lock device.
- •When adjusting conveyor, move after pull down the cylinder.
- Do not use the oil at the connection area of pistion rod.
- Oil causes non-function.
- Please be careful with hands and clothing during operation.

Repair and inspection

When replacing the shock absorber, please fix the shock absorber well with fixing bolt.

STOPPER CYLINDER Selection Process

- 1. From the crossing point of the maximum weight of the returned product and speed we select the size of the cylinder and damper model.
- 2. Through the friction calculation of the conveyor roller and pallet we bring out the constant horizontal weight.
- (Constant horizontal weight = Returned product weight × Friction calculation)
- 3. Set up the user pressure and select the cylinder size.

Application example

- ** Condition used = Conveyor speed : 14m/min, Returned product total weight : 230kgf, Pressure used : 5kgf/cm², Friction calculation number : 0,1
- * Selection method
 - Select the damper model and cylinder size
 - LB(strong type) damper, 50 size cylinder
 - Find the constant horizontal weight
 - Returned product weight × Friction calculation number = 230kgf×0.1=23(kgf)
 - The 50size cylinder is selected on the crossing point of the pressure used at 5kgf/cm², and at the constant horizontal weight of 23kgf