CONVEYOR CHAIN USE AUTOMATIC LUBRICATOR

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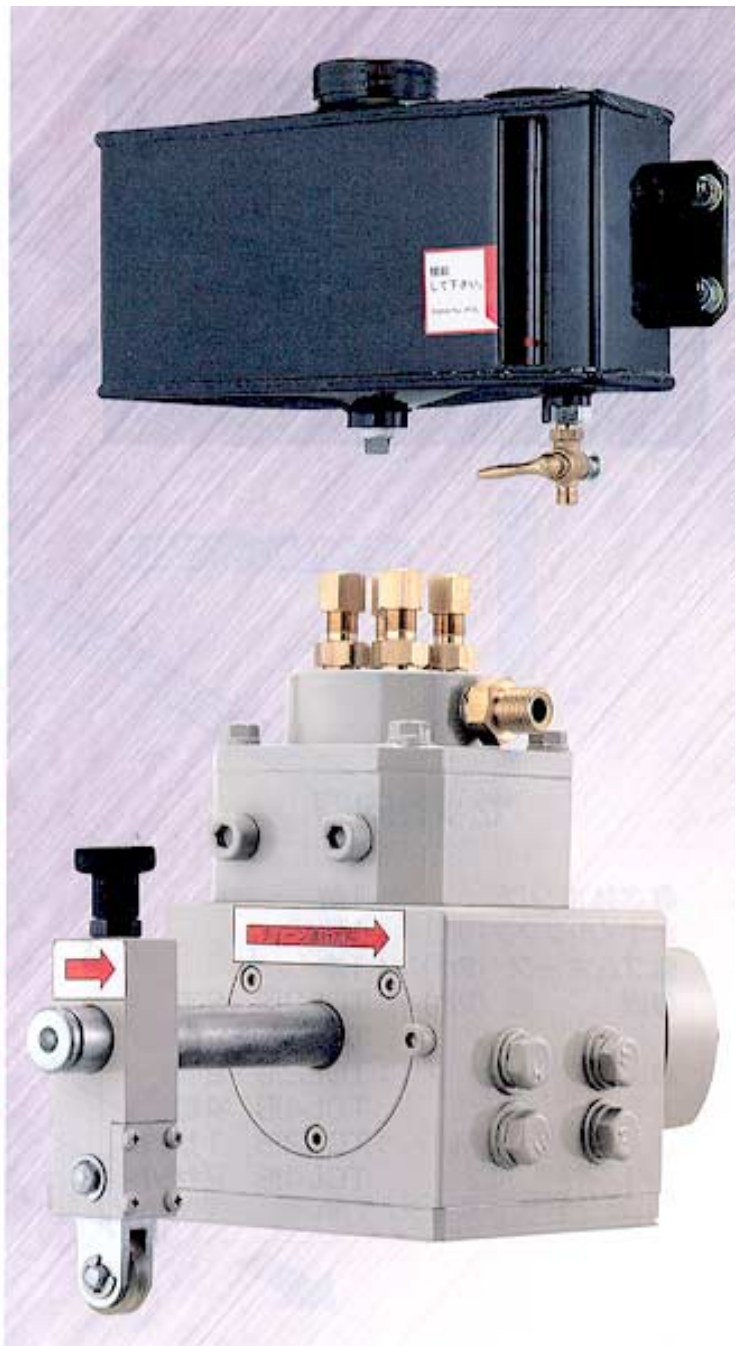TGL LUBRICATOR
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CONVEYOR CHAIN USE AUTOMATIC LUBRICATOR

No external power necessary
As the chain movement drives the lubricator, electrical or hydraulic power is not required allowing easy set up and maintenance.

Accurate lubrication
As lubrication is performed through chain movement and operation, precise and consistent lubrication is possible.
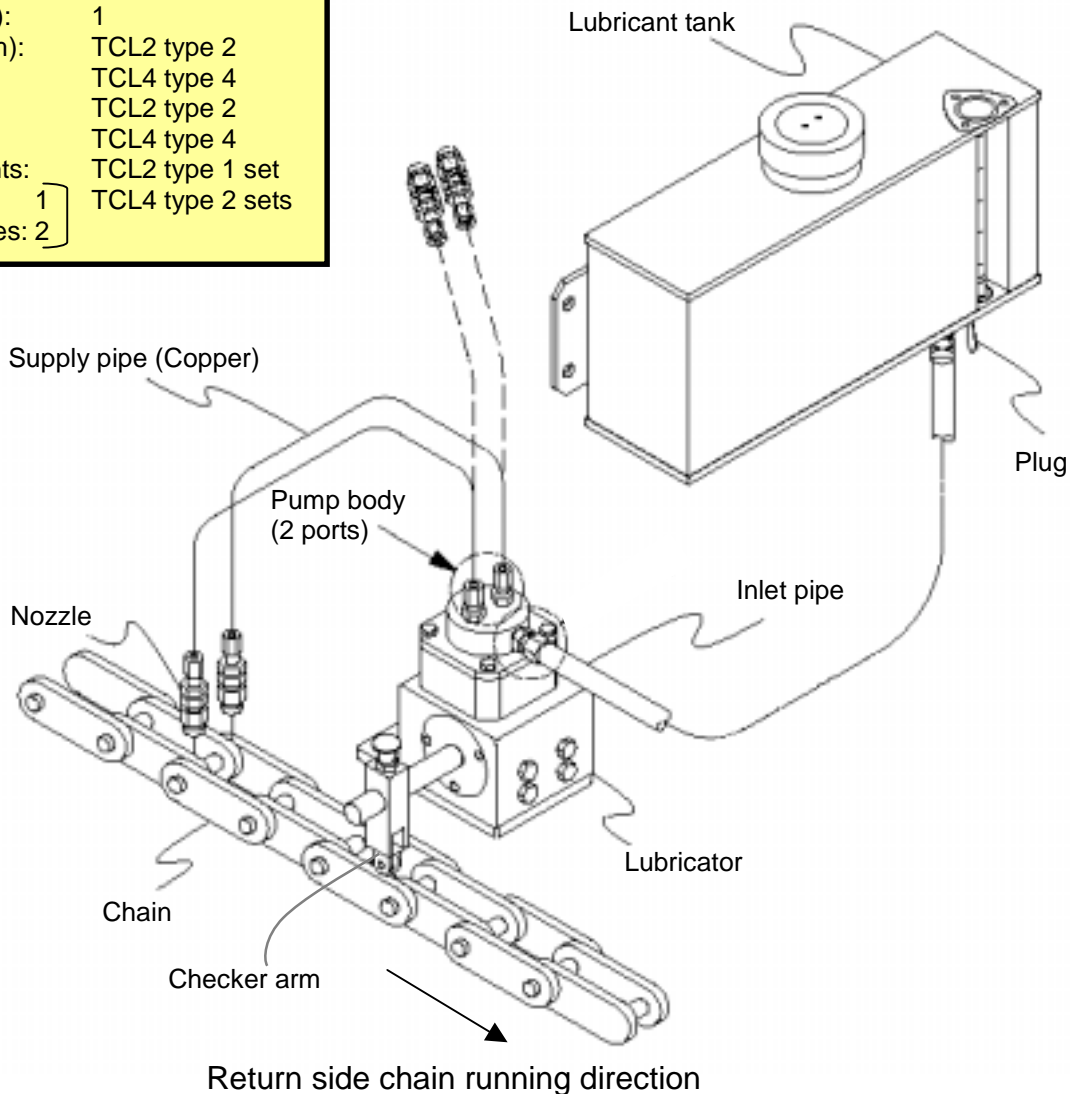
Compact and low cost
Compared with existing conveyor use lubricators it is lightweight, easy to install and economically priced.

The **AUTOMATIC LUBRICATOR** **reduces** Conveyor Chain **wear, running resistance** and **running noise**.

Parts

Pump body:	1	
Lubricant tank (5*l*):	1	
Rubber hose (2m):	1	
Copper piping (2m):	TCL2 type 2	
	TCL4 type 4	
Nozzle	TCL2 type 2	
	TCL4 type 4	
Nozzle attachments:	TCL2 type 1 set	
L-shaped plate: 1	TCL4 type 2 sets	
Attachment plates: 2		

Lubricant tank

Plug

Supply pipe (Copper)

Pump body (2 ports)

Inlet pipe

Nozzle

Lubricator

Chain

Checker arm

Return side chain running direction

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TCL type Conveyor chain use Automatic Lubricator

The TCL type Lubricator is for application with Conveyor chains. The lubricator is automatically activated by the chain roller pushing the pump's checker arm up to release the set amount of lubricant through the nozzle. Accordingly, external power for the pump is unnecessary, set up is simple and, precise and reliable lubrication is possible.

Parts functions

Part	TCL4	TCL2
Supply ports	4	2
Allowable operation	Max. 3 times/second Allowable chain pitch and chain speed data is shown below	
Supply amount	Fixed 0.05CC/shot/port	
Timing sensor	Checker arm	
Operation/Stopping	When the conveyor has been stopped, the checker arm can be moved manually.	
Oil tank	5l	
Operating Temperature	-10°C ~ +120°C	

Allowable operation chain pitch and speed

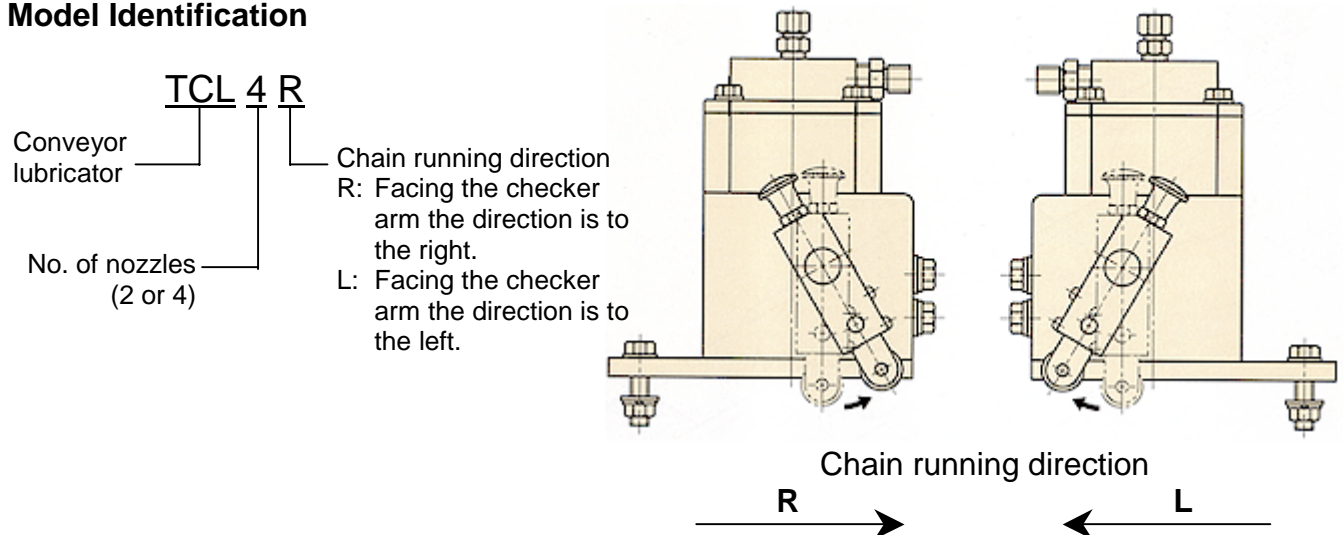| Chain pitch (mm) \ Chain speed (m/min)	5	10	15	20	25	30
75	O	X	X	X	X	X
100	O	O	*S	X	X	X
150	O	O	O	O	O	*S
200	O	O	O	O	O	*S
250~600	O	O	O	O	O	O

*S: Only S roller type can be used.

Lubricant

Lubrication oil with a viscosity index of ISO VG32 ~ 100 can be used.

Note: Lubricants containing additives such as MoS$_2$ (Disulfide) cannot be used as they may obstruct the nozzle.

Model Identification

TCL 4 R

Conveyor lubricator

No. of nozzles (2 or 4)

Chain running direction
R: Facing the checker arm the direction is to the right.
L: Facing the checker arm the direction is to the left.

Chain running direction

R   L

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Stopping lubrication

To stop lubrication, first, after stopping the conveyor turn the checker arm 90° using the lever at the top until it locks into the fixing hole and cannot contact the chain. Turn off the pump.

Lubrication position
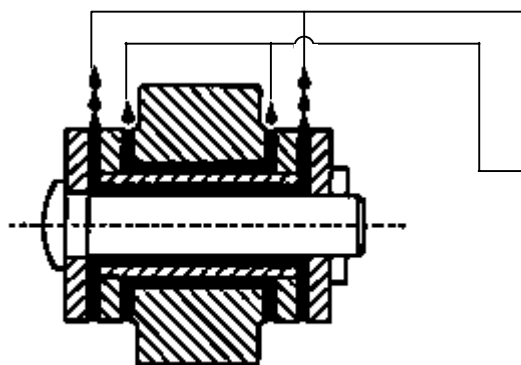
Lubrication stopped position
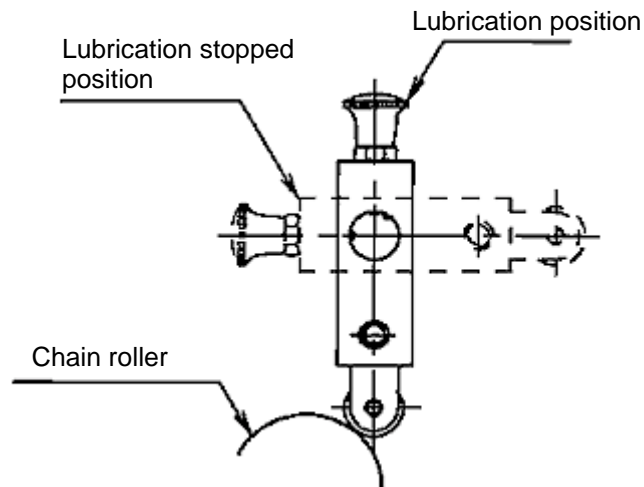
Chain roller

Safeguard for chain backlash

If the chain backlashes or reverses direction the checker arm's roller part will spring backwards and up to prevent catching on the chain.
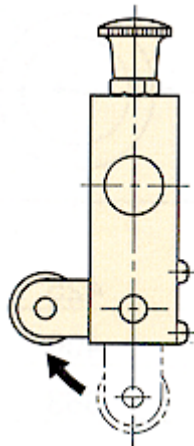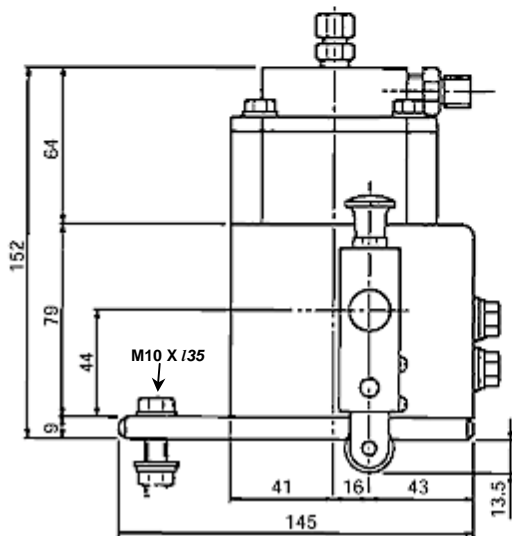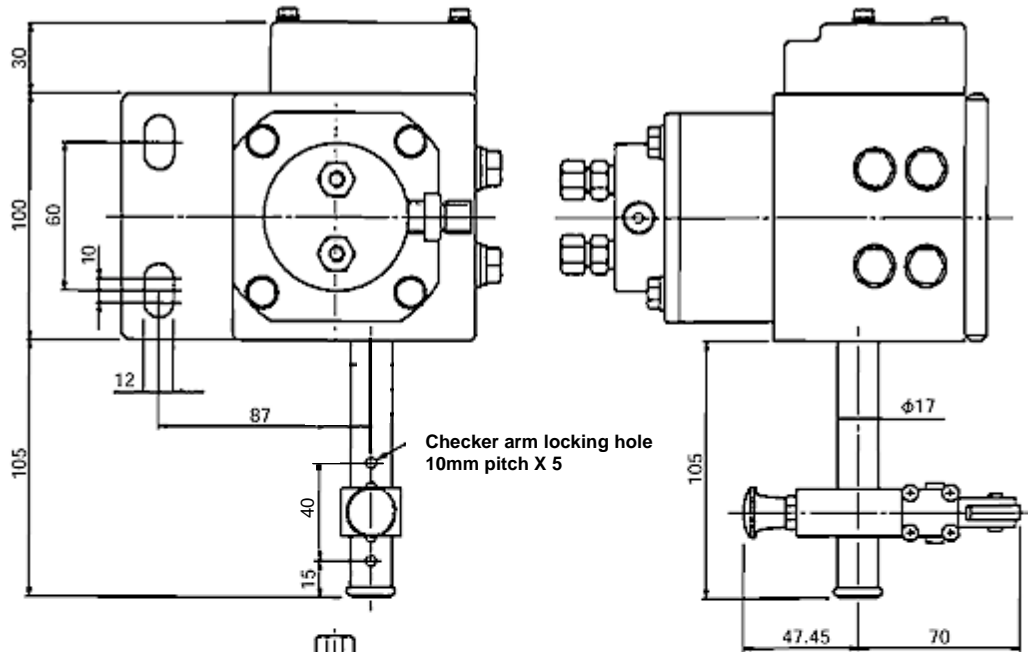
Lubrication

Lubricates between the Inner and outer plates (Lubrication for area between Pin and bushing)

Lubricates between the Inner plate and the roller (Lubrication for area between bushing and roller)
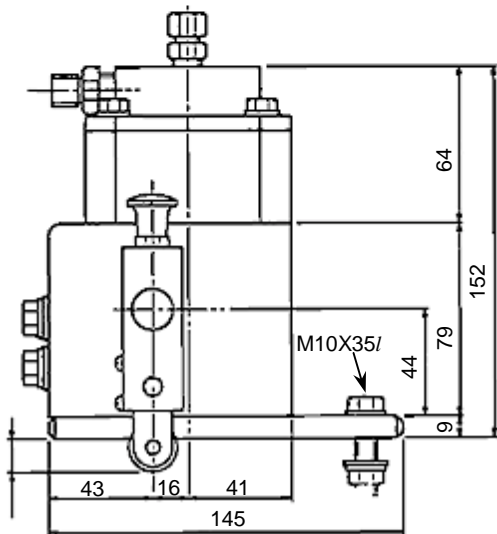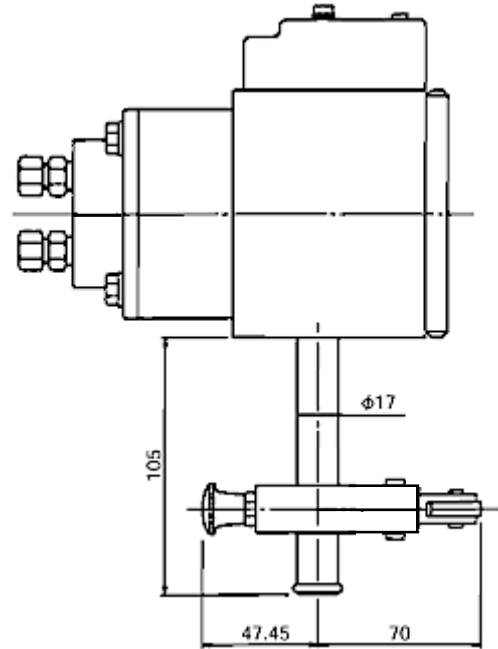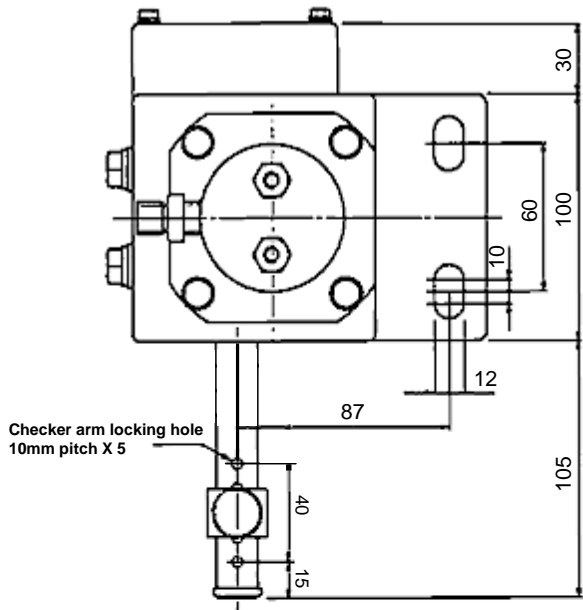
CONVEYOR CHAIN USE AUTOMATIC LUBRICATOR

Main Pump   TCL_R

Checker arm locking hole
10mm pitch X 5

φ17

M10 X *l35*

Running direction

→ **R**

Type	TCL4R TCL4L	TCL2R TCL2L
Supply ports	4	2
Allowable operation	Max. 3 times/second	
Supply amount	Fixed 0.05CC/shot/port	
Supply pressure	$2kg/cm^2$	
Colour	Cream	
Weight	5.3kg	
Attachment parts	Bolts (M10X35*l*) Nuts X 2	

CONVEYOR CHAIN USE AUTOMATIC LUBRICATOR

Main Pump   TCL_L

30

100

60

10

12

87

105

**Checker arm locking hole
10mm pitch X 5**

40

15

Φ17

105

47.45

70

64

152

79

44

9

M10X35*l*

43

16

41

145

L ← Running direction

CONVEYOR CHAIN USE AUTOMATIC LUBRICATOR
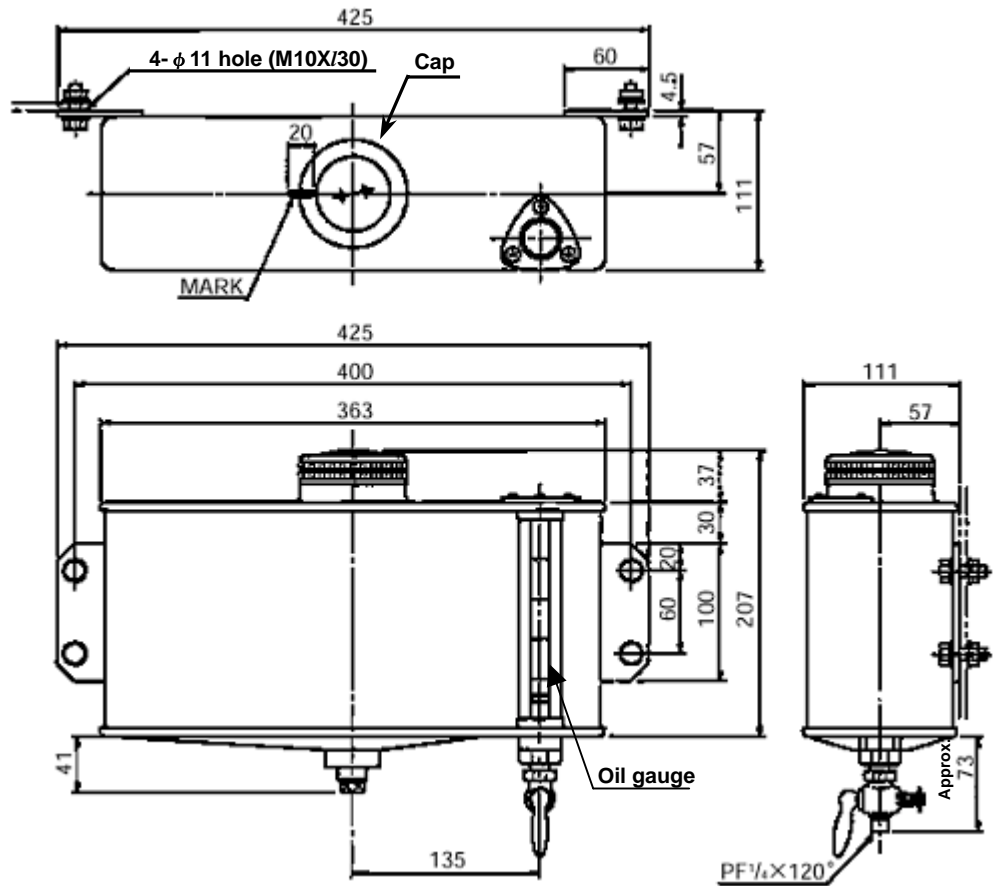
Oil Tank

Oil Tank

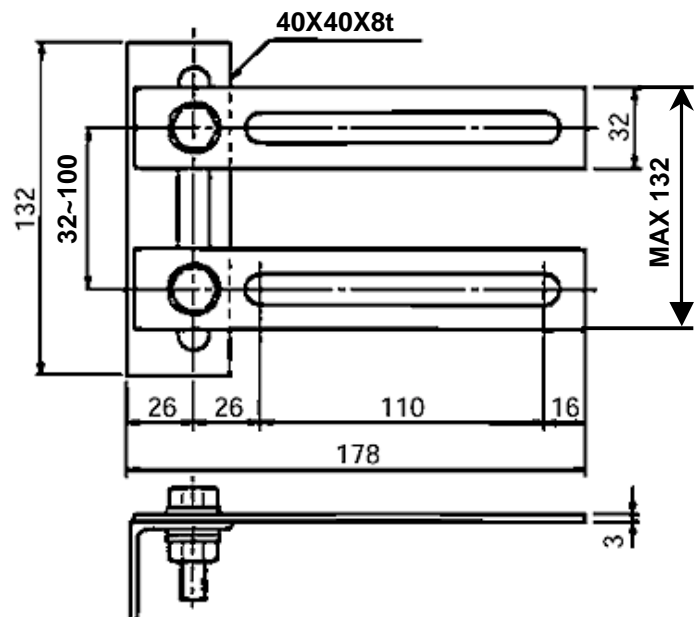| Size	5 *l*
Filter	Built-in 50 mesh
Tank colour	Dark green
Weight	5.3kg
Attachment parts	Bolts (M10X30*l*) Nuts X 4
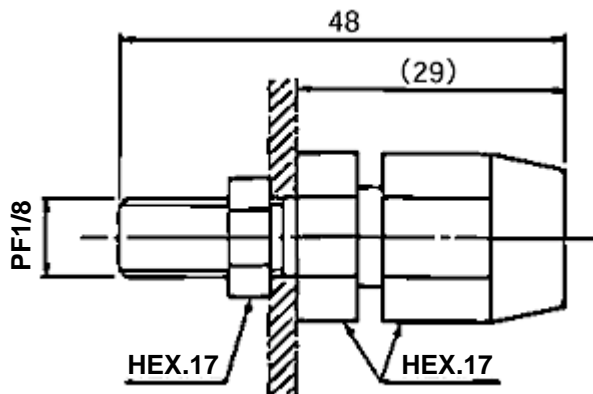
Nozzle

Nozzle attachment parts

When using one attachment plate
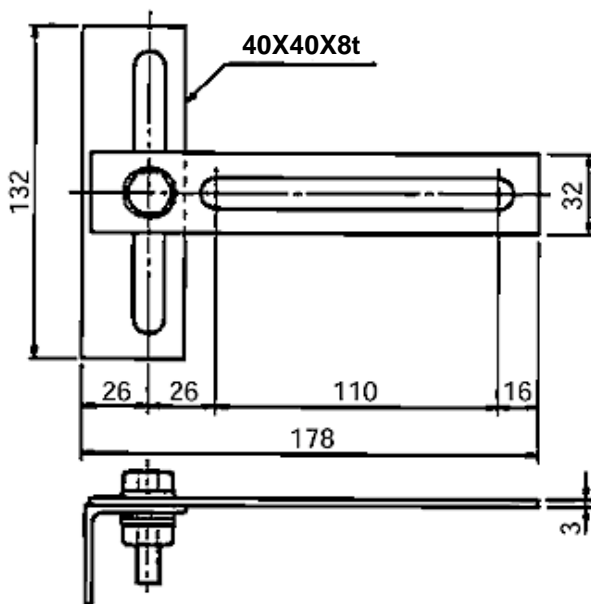
When using two attachment plates

Piping(Attachments nuts for each end)

Piping	Outlet pipe	Inlet pipe
Material	Copper	Rubber hose (Black)
Dimensions	Outer Dia. $\phi 5$	Outer Dia. $\phi 16$
	Inner Dia. $\phi 3$	Inner Dia. $\phi 8.5$
Length	2000	2000

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