TLV. LOCK RELEASE VALVE

MODEL LR3 / LR5

Features

Lock release valve to eliminate steamlocking of steam traps J3X and J5X if installed on cylinder dryers, presses and other steam-using equipment prone to steam-locking.

- 1. Fine-adjustment to keep steam loss low.
- 2. Maintenance and repair is possible without removing the valve from the steam trap.
- 3. Simple construction and compact design.
- 4. All parts made of stainless steel.

Picture shows LR3 on trap J3X

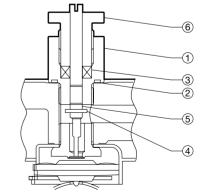
Specifications

Model		LR3	LR5	
For Steam Trap Model		J3X, JF3X	J5X, JF5X	
Max. Operating Pressure (barg)	PMO	21		
Max. Operating Temperature (°C)	TMO	22	20	

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS) : Maximum Allowable Pressure (barg) PMA: 13 Maximum Allowable Temperature (°C) TMA: 200

CAUTION To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

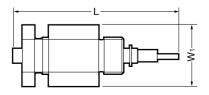
No.	Description	Material	DIN	ASTM/AISI*
1	Gland Case	Stainless Steel SUS303	1.4305	AISI303
2	Gasket	Fluorine Resin PTFE	— 1.4301 1.4305	— — AISI304 AISI303
3	Gland Packing	Graphite		
4	Snap Ring	Stainless Steel SUS304		
5	Element Retainer	Stainless Steel SUS303		
6	Gland Retainer Nut	Stainless Steel SUS303	1.4305	AISI303

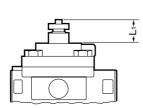


* Equivalent

Dimensions

•LR3, LR5



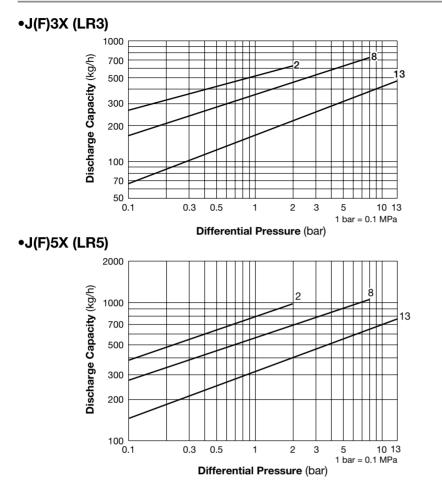


LR3, LR5 (mm)									
	Model	L	L1	W1	Weight (kg)				
	LR3	58	23	22	0.08				
	LR5	66		22	0.00				

TLV

Consulting & Engineering Service

Trap Capacity (Lock Release Valve fully open)



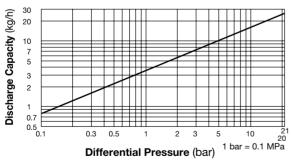
- 1. Line numbers within the graph refer to orifice numbers.
- Differential pressure is the difference between the inlet and outlet pressure of the trap.
- Capacities are based on continuous discharge of condensate 6 °C below saturated steam temperature.
- 4. Recommended safety factor: at least 1.5.
- 5. When the lock release valve is fully closed, the trap capacity will be as shown in the J(F) 3X and J (F)5X SDS.



DO NOT use traps under conditions that exceed maximum differential pressure as condensate backup will occur!

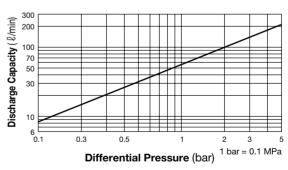
Steam/Air Discharge through trap air vent (Lock Release Valve fully open)





1. Differential Pressure is the difference between the inlet and outlet pressure of the trap.





- 1. Differential Pressure is the difference between the inlet and outlet pressure of the trap.
- 2. Capacities are equivalent capacities of standard air (air at 20 °C and atmospheric pressure).

Manufacturer

Kakogawa, Japan is approved by LRQA Ltd. to ISO 9001/14001



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SDS U4408-08 Rev. 11/2000 Specifications subject to change without notice.