

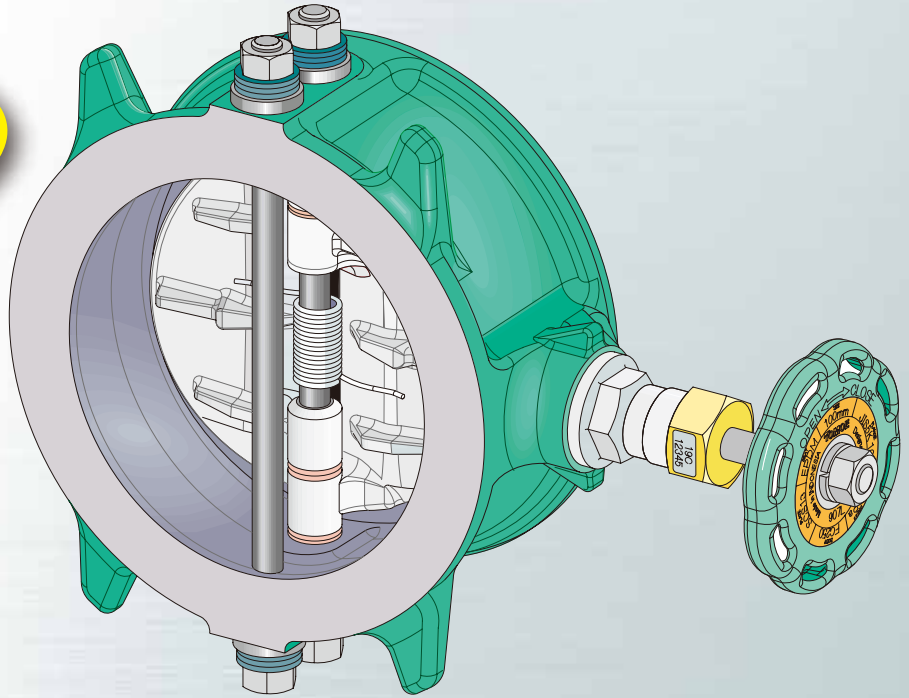
TOMOE

Anti-Vibration Check Valve

MKT_{series} 907L

New

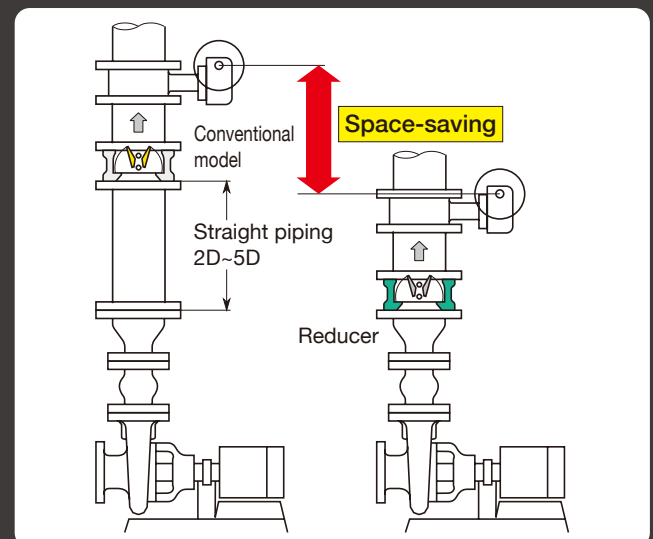
1.0MPa



1.0MPa model of Anti-Vibration Check Valve MKT series is now available!

■ Direct installation to a reducer

- Prevents vibration of plates caused by fluid turbulence, which improves durability.
- Direct installation to a reducer and a curved pipe saves piping space.
- Lightweight plate reduces moment of inertia, improving performance of preventing water hammer.
- Achieved 30% reduction in weight compared to the conventional model 907H.



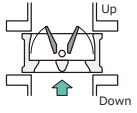
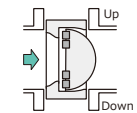
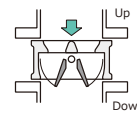
TOMOE VALVE CO., LTD.

Standard Specifications

Model	907L (Anti-Vibration MKT series)										
Valve design ^{*1}	Wafer type dual-plate check valve (bypass valve installed)										
Valve nominal size	50	65	80	100	125	150	200	250	300		
Face to face dimension (TOMOE original)	mm	56	56	60	66	70	76	95	108	144	
Max working pressure	1.0MPa										
Applicable flange standard	JIS 5K, 10K										
Seat leakage (when checking)	Tight shut Equivalent or more pressure written in "Spring selection table" is needed.										
Standard materials	Body	FC250		Cast iron, Manganese phosphate							
	Plate	SCS13		304 stainless steel							
	Shaft pins	SUS304									
	Spring	SUS304-WPB									
	Seat ring ^{*2 *3 *4}	EPDM		Options : NBR							
Working temperature range	EPDM	-20°C ~100°C									
	NBR	-10°C ~80°C									
Working temperature in continuous use ^{*5}	EPDM	0°C ~70°C									
	NBR	0°C ~60°C									
Test pressure	Body shell test	1.5 MPa (hydraulic)									
	Seat leakage	High-pressure test : 1.1 MPa (pneumatic) Low-pressure test : 0.04 MPa (pneumatic)									
Pipe gasket ^{*6}	Required										
Coating	Urethane coating (Munsell 2.5BG 6/12-Green)										
Spring options ^{*7}	High torque, low torque (spring-less)										

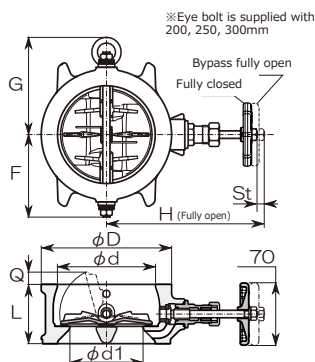
- ※1. As parts of bypass are made of copper alloy, a fluid which corrodes copper alloy such as acetylene and ammonia can not be used.
- ※2. Rubber seat is vulcanized to valve body.
- ※3. EPDM seat ring can not be used for oil or a fluid containing oil. A fluid containing chlorine can accelerate damage to rubber seat ring, depending on density and temperature of the fluid. A fluid containing alkali and acid can weaken bond of seat ring, please consult our sales staff.
- ※4. EPDM seat ring is recommended in case of using chemical containing calcium for maintenance.
- ※5. "Working temperature in continuous use" stands for the temperature continuously kept for over one hour. Provided that fluid is not frozen inside.
- ※6. Use two commercially available gaskets per valve, which is appropriate for flange standard and fluid condition. JIS B 2404 seat gasket, ring type, t=3mm is recommended (65A suits both new and old JIS).
- ※7. Refer to below table for selection of spring option and required pressure.
- ※8. Use 903L instead of 907L when a fluid contains solid or adhesive substance.

Spring selection table

Flow Direction	Fluid	Condition	Min. differential pressure (MPa)	Size	Spring
Up flow 	Liquid (Clean water)	Installed directly after a reducer which is 3 sizes smaller than a valve, a curved pipe or a straight pipe. No solid or adhesive substance in a fluid.	0.02	50~300A	High torque
			0.04		Standard
Gas	Forward direction, inlet pressure 0.1MPa or more	0.04	Low torque		
Horizontal layout 	Liquid (Clean water)	Installed directly after a reducer which is 2 sizes smaller than a valve, a curved pipe or a straight pipe. No solid or adhesive substance in a fluid.	0.04	50~300A	High torque
			0.06		50~200A
Down flow 	Liquid (Clean water)	Installed directly after a reducer which is 2 sizes smaller than a valve, a curved pipe or a straight pipe. No solid or adhesive substance in a fluid.	0.1	50~150A	High torque

※Valve needs to be selected in accordance with fluid and installation condition in order to avoid vibration and noise while operation.

Dimension



Nominal size	Dimension (mm)									Approx. Mass Kg
	φd	L	φD	φd1	H	St	F	G	Q	
50	61	56	90	39	149	8	59	—	0	1.8
65	74	56	114	49	157	8	72	—	6	2.5
80	87	60	130	61	163	8	84	—	9	3.2
100	109	66	145	82	176	8	92	—	16	4.0
125	140	70	180	108	190	9	110	—	27	5.8
150	163	76	210	128	204	9	125	—	36	8.3
200	214	95	265	173	230	9	160	169	45	15
250	268	108	320	218	285	11	187	197	60	24
300	316	144	373	261	310	11	221	232	58	39

※Please read instruction manual before use.

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