MKT_{Series} 907H / 908H



Prevention of chattering.

A new generation of check valves that reduce piping space and allow direct attachment of the pump.

Previous Product



Based on fluid theory and vibration analysis, we have achieved a new mechanism that does not allow chattering even at high flow speeds and during fluid fluctuations.

MKT Series



(Note) The colors indicate the pressure distribution. Red indicates high pressure and blue indicates low pressure. Flow speed is indicated by arrow size.



As indicated above, there are no vibration peaks at any of the frequencies and damage due to vibration is prevented.

Features and Benefits						Butterfly Valve	
Helps redu	leins reduce installation space, resulting less cost and lesser time					TRITEC	
	duce instantation space, resulting less cost and lesser time.						
Over 80% of	piping space reduced	around pump Direct pump installation possible			334A		
Designed for an upstream side c	nti-vibration, that previouly for of check valves is no longer	ound on theDesigned for anti-vibration, the pump can now be installednecessary anddirectly. In fact, it achieved a smaller bore diameter that is 2					
the piping space	e around the pump has bee	n greatly reduced.	to 3 sizes sm	naller than previous one	e.	304A/3040	
Prevents wat	ter hammer					302Y/304	
The combinatio	on of a light, compact plate v	vith a small	MKT Series	Lift check valve	Swing check valve	304M	
moment of inert	tia and an optimized spring	quickly stop the	Upstream pressure fluctuation	Upstream pressure fluctuation	Upstream pressure fluctuation	507V/508\	
The figure below oor		fuetuations when the	Idation		- Black Branning	DTM	
pump is suddenly sto smaller pressure fluc	opped. Compared to other models, t ctuation amplitude on the downstrear	he MKT series have a m side which makes it	Downstream pressure fluctuation	Downstream pressure fluctuation	Downstream pressure fluctuation	846T/847T/847	
effective in preventing	g water hammer.					841T/8421	
Suitable for a	all needs		needs				
Being able to ha	andle water steam dases	and other fluids a	ll needs can be met		arbon resin sheet and	7006/7046/705	
Being able to ha stainless steel b	andle water, steam, gases, body allows chemicals, corr	and other fluids, a osive fluids and hi	Il needs can be met gh temperature liqui	. Also, use of a fluoroc	arbon resin sheet and x.) to used which means	700G/704G/705	
Being able to ha stainless steel b a wide range of	andle water, steam, gases, body allows chemicals, corr f application environments c	and other fluids, a osive fluids and hi an be convered.	II needs can be met gh temperature liqui	. Also, use of a fluoroc ds (200 degrees C ma	arbon resin sheet and x.) to used which means	700G/704G/705 700GB	
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Being able to ha stainless steel b a wide range of Standard Spec	andle water, steam, gases, body allows chemicals, corr f application environments c cifications	and other fluids, a osive fluids and hi an be convered.	Il needs can be met gh temperature liqui 907H Wafer-type c	Also, use of a fluoroca ds (200 degrees C ma	arbon resin sheet and x.) to used which means	700G/704G/705 700GB 731P/732P 732Q/752W 71LG 700E/700K/700	
Being able to hastainless steel based of a wide range of Standard Spec	andle water, steam, gases, body allows chemicals, corre f application environments c cifications	and other fluids, a osive fluids and hig can be convered.	Il needs can be met gh temperature liqui 907H Wafer-type c 50, 200, 250, 300, 350, 400	Also, use of a fluoroca dids (200 degrees C ma double-plate check valve 50, 65, 80, 100, 1	arbon resin sheet and x.) to used which means 908H 125, 150, 200, 250, 300mm	700G/704G/705 700GB 731P/732P, 732Q/752W 71LG 700E/700K/700 704G/722F/720	
Being able to ha stainless steel b a wide range of Standard Spec Valve design Valve nominal size Valve type	andle water, steam, gases, body allows chemicals, corr f application environments c cifications	and other fluids, a osive fluids and his can be convered. 50, 65, 80, 100, 125, 1	Il needs can be met gh temperature liqui 907H Wafer-type c 50, 200, 250, 300, 350, 400 Check	Also, use of a fluoroca double-plate check valve mm 50, 65, 80, 100, 1 valve with bypass	arbon resin sheet and x.) to used which means 908H 125, 150, 200, 250, 300mm	700G/704G/705 700G/704G/705 731P/732P 732Q/752W 71LG 700E/700K/700 704G/722F/720	
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*1 250mm and 300mm include rubber sleeves. Compared to the ones without rubber sleeves, loss of pressure increases 8°/ around. 907H 350mm & 400mm can be made to order. Please contact us for the details.
*2 The rubber seat is vulcanized to the valve body.
* Never use an EPDM rubber seat ring if the valve is being used for oil or for a fluid containing even a slight amount of oil.

MKT Expanded view of components

No.



Q'ty

Remarks

200 mm, 250 mm, 300 mm: 2

Vulcanized to body

Only 150mm and over

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Description

	-			
	1	Body	1	
	2L	Left plate	1	
	2R	Right plate	1	
	3	Spring	1	200 mm, 250 mm, 300
	4	Hinge pin	1	
	5	Stop pin	1	
	6	Seat	1	Vulcanized to bod
<u></u>	7	Hexagon nut	4	
	8	PTFE washer	2	
	9	PTFE washer	4	
	10	Eye bolt	1	Only 150mm and o
	12	Handle wheel	1	
4	13	Lock bolt	1	
5	14	Stopper	1	
	15	Hex.socket set screws	2	
	16	O ring	1	
	20	Spindle	1	
	21	Hexagon nut	1	
	23	Collar	1	
	26	Seal washer	4	
$ \rangle \rightarrow 10$	29	Spring lock washer	1	
	30	Bearing	4	
	51	By-Pass seat	1	0 1 050 000
	99	Sleeve	1	Only 250, 300mm
		20 13 15		
				20



1)	Mass (kg)		Dimension (mm)				al size	Nomir
)	FCD	SCS	Н		<i>Φ</i> D	Ød	inch	mm
5	2.5	2.7	135	60	101	58	2	50
5	3.5	3.7	142	67	121	74	2 1/2	65
4	4.4	4.7	149	73	131	87	3	80
Э	5.9	6.2	186	73	156	105	4	100
7	8.7	9.2	200	86	187	134	5	125
4	12.4	13.1	213	98	217	160	6	150
ō	21.5	22.6	239	127	267	210	8	200
5	35.6	37.5	282	146	330	258	10	250
4	53.4	56.2	308	181	375	306	12	300

MKT Head loss vs. Flow



MKT Selection Criteria

						Butterfly Valve
01	Coloction table by applicat	ion and anring				TRITEC
Chart		Velocity	Elow Direction		Spring type	TT2
	Fluid: Liquid and	Velocity				334A
А	Installation: directly after 3D expanding pie or elbow%1	See Chart 2		Low torque	e spring with rubber sleeve	302A/303Q
		10m/s \sim 50m/s, and	Up flow	200mm an	d smaller: Special selection (%2)	304A/304Q
В	Fluid Gas (air)	line and differential pressure 0.1MPa \sim 2MPa		250mm an	a above: standard selection	302Y/304Y
				200mm an	d smaller: special selection	304M (HLV)
		0.5m/s \sim less than 2m/s		low torqu 250mm an	e spring) Id above: standard selection	507V/508V
						DTM
		2m/s \sim less than 10m/s	Standard torque spring		orque spring	846T/847T/847Q
	Fluid Liquid*		Horizontal pipe layout			841T/842T
C	*If installed directly after	$2m/s \sim less than 10m/s$		Standard t		700Z
C	expanding pipe, it should not be more than 2D	211/5 - 1655 (1101 1011/5		Stanuaru t		700G/704G/705G
			<u>L</u> down			700GB
			Down flow (%3)			731P/732P/ 732Q/752W
		Less than 5m/s Valve size less than 200mm		High torqu	e spring	71LG
						700E/700K/700S
<1 Plea	ase do not install MKT directly after 4D or r	nore expanding pipe due to possible abr	normal noise, damage and leak	age. Selection (can be applied if 5D or more expanding pipe.	704G/722F/720F
€2 For €3 The	valve size 200mm and smaller, pressure leave is possible seat leakage by reverse flow	oss at full open will increase due to rubbe	er sleeve.	0		KRV
Filea	se contact us for application other than ab ction C can be applied if MKT is installed t	ove application to avoid possible abnorm before expanding pipe.	nal noise, damage, and leakage	э.		227P
						907H/908H
Chart	2 Minimum necessary avera	ge velocity for MKT installe	d after 3D expanding	pipe and e	elbow	(MKT) 903C
	Valve size	50, 65, 80, 100mm	125,150, 200r	nm	250, 300mm	
Mini	mum necessary velocity	1.2m/s	1.6m/s		2.2m/s	
Max	imum allowable velocity	10m/s	10m/s		10m/s	

MKT Applicable pipe list in case of A

Nomin	al size	SCD	Sab20	Sab 40	Sab 10S	Sab20S	
mm	inch	SGP	SCHZU	50140	301103	Sch20S	
50	2	0	0	0	\bigcirc	\bigcirc	
65	2 1/2	0	0	0	0	0	
80	3	0	0	0	0	0	
100	4	0	0	0	0	0	
125	5	0	0	0	0	0	
150	6	0	0	0	0	0	
200	8	0	0	0	0	0	
250	10	0	0	0	0	0	
300	12	0	0	0	0	0	

MKT Applicable pipe list in case of B

Nomir	al size	SCD	Sab20	Sob40	Sob10S	Sobans	
mm	inch	JGF	30120	301140	301103	Sch20S	
50	2	0	0	0	0	0	
65	2 1/2	0	0	0	0	0	
80	3	0	0	0	0	0	
100	4	0	0	0	0	0	
125	5	0	0	0	0	0	
150	6	0	0	0	0	0	
200	8	0	0	0	0	0	
250	10	0	0	0	0	0	
300	12	0	0	0	0	0	

Minimum internal diameters of piping (mm)

Nomin	al size	Minimum internal diameters of piping	
mm	inch	(mm)	
50	2	35.0	
65	2 1/2	45.5	
80	3	56.0	
100	4	80.6	
125	5	98.2	
150	6	122.1	
200	8	156.8	
250	10	204.7	
300	12	222.9	

Remark: O: Installation possible, -: No standard





MKT Cracking Pressure (Opening Pressure)

TRITEC							
TT2	ue spring	Low torque spring		Standard torque spring		Nominal size	
	MPa	mmAq	MPa	mmAq	CV Value	inch	mm
334A	0.00012	12	0.00114	116	46.0	2	50
302A/303Q	0.00013	13	0.00111	113	74.5	2 1/2	65
304A/304Q	0.00022	22	0.00157	160	138	3	80
302Y/304Y	0.00016	16	0.00080	82	251	4	100
304M	0.00012	12	0.00048	49	435	5	125
(HLV) 507V/508V	0.00015	15	0.00057	58	685	6	150
	0.00016	16	0.00077	79	1340	8	200
DIM	0.00012	12	0.00058	59	2330	10	250
846T/847T/847Q	0.00010	10	0.00049	50	3760	12	300
841T/842T		-			-		

Minimum required pressure difference for flowing in forward direction

MKT Piping Bolt and Nut Sizes

700GB						
731P/732P/ 732Q/752W	JIS20K ASME B16.5 Class150		JIS16K	JIS10K	al size	Nomir
71LG		9 M16×140×25	0 M16×140×25	4 M16×140×25	inch	mm FO
700E/700K/700S	4-05/8-11×145×40 4-115/8-11×160×40	8-M16×140×35	8-M16×140×35	4-M16×150×40	2 1/2	65
7046/7006/7005	4-U5/8-11×170×40	8-M20×175×50	8-M20×175×50	8-M16×160×40	3	80
/04G//22F/720F	8-U5/8-11×170×40	8-M20×175×50	8-M20×175×50	8-M16×160×40	4	100
KRV	8-U3/4-10×190×50	8-M22×200×50	8-M22×200×50	8-M20×180×50	5	125
227P	8-U3/4-10×205×50	12-M22×215×50	12-M22×215×50	8-M20×200×50	6	150
907H/908H	8-U3/4-10×240×50	12-M22×240×50	12-M22×240×50	12-M20×230×50	8	200
(MKT)	12-U7/8-9×265×55	12-M24×275×60	12-M24×275×60	12-M22×260×50	10	250
903C	12-U7/8-9×305×55	16-M24×315×60	16-M24×315×60	16-M22×300×50	12	300

The bolt lengths are in accordance with JIS and thickness of steel flanges.

Remark: *Use a hexagon nut with 80% threading. *Material: "SS400" (Unichrome plating)







Butterfly Valve

700Z

700G/704G/705G