

Aqua Tech



水のマイゼフ

NO. 05e

# Resilient-Seated Gate Valve

Type MSS

Type MSM



Maezawa Industries, Inc.

## Lineups

### Flanged Type

P3 ~ P5

#### Outside Screw and Yoke Type

##### Non-Rising Stem Type



JWWA B 120



### PE Pipe Type

P6 ~ P7

#### Non-Rising Stem Spigot Type

PTC B 22



#### Non-Rising Stem Socket Type

JWWA K 144 / PTC K 03



## Features

### No biting of earth and sand

The flat bottom design of the body will prevent biting of earth and sand and eliminates vortices.

### Inhibition of leakage and red rust occurrence

The epoxy powder coating of interior and exterior and overall rubber encased resilient seated disc will prevent damage of gland from leakage and red rust.

### Light weight for ease of installation

The light weight body with robust materials and compact sized design made the installation easy.

### Maintenance made easy

The seal on stem can be replaced at full open position without stopping the water flow. The disc can be replaced from the top side of the valve without taking off from the pipeline.

### Valve opening indicator ( optional )

Optional valve opening indicator is available for non-rising stem type.

$\phi$  50mm -  $\phi$  300mm(except for  $\phi$  125mm)



## Standard Specification

End connection Type	StemType	Operating Pressure Type	Nominal Size	Operation Type	
Flanged	Non-Rising Stem	Type 2 (7.5K)	50mm - 500mm	Manual	
		Type 3 (10K)			
		Type 4 (16K)	50mm - 300mm		
	Outside Screw and Yoke	Type 2 (7.5K)	50mm - 500mm		Manual Electric
		Type 3 (10K)			
		Type 4 (16K)	50mm - 300mm		
For PE Pipe( Spigot )	Non-Rising Stem	Type 2 (7.5K)	50mm - 200mm	Manual	
For PE Pipe( Socket )	Non-Rising Stem	Type 2 (7.5K)	50mm - 150mm	Manual	

\* Special specification is available upon request. Please contact our local sales team.

## Standard Materials

Material	Body	FCD450-10(ASTM 65-45-12)
	Disc	
	Bonnet	
	Stem	SUS403(ASTM S 40300)
	Seat on Disc	EPDM rubber
	Paint	Epoxy powder coating ( Interior / Exterior )
	Color	Munsel N5.5 compatible ( Gray )

## Inspection

### Shell Test

Unit:MPa

Size	Operating Pressure		
	Type 2 (7.5K)	Type 3 (10K)	Type 4 (16K)
50mm - 300mm	1.75	2.30	2.40
350mm	1.75	2.30	-
400mm - 500mm	1.40	2.10	-

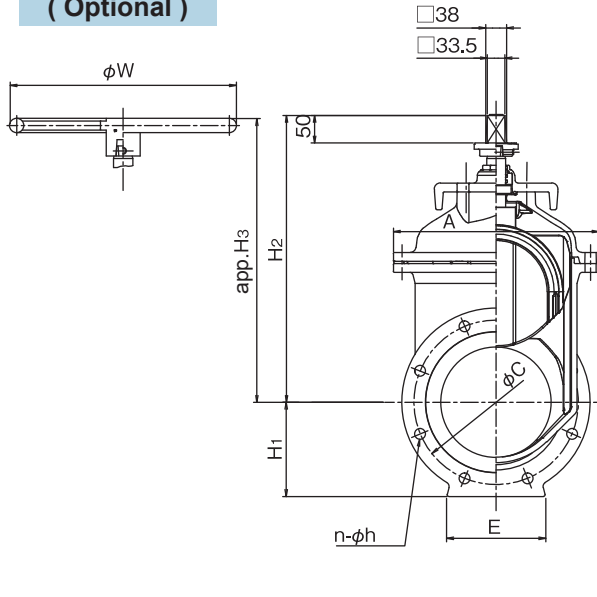
### Seat Leakage Test

Unit:MPa

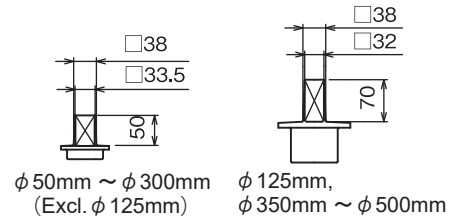
Size	Seat Leakage test		
	Type 2 (7.5K)	Type 3 (10K)	Type 4 (16K)
50mm - 300mm	0.75	1.00	1.76
350mm - 500mm	0.75	1.00	-

MSS / MSM(with Opening Gauge)

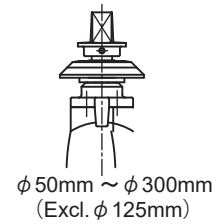
Handwheel  
( Optional )



Key cap



with Opening Gauge  
( Optional )

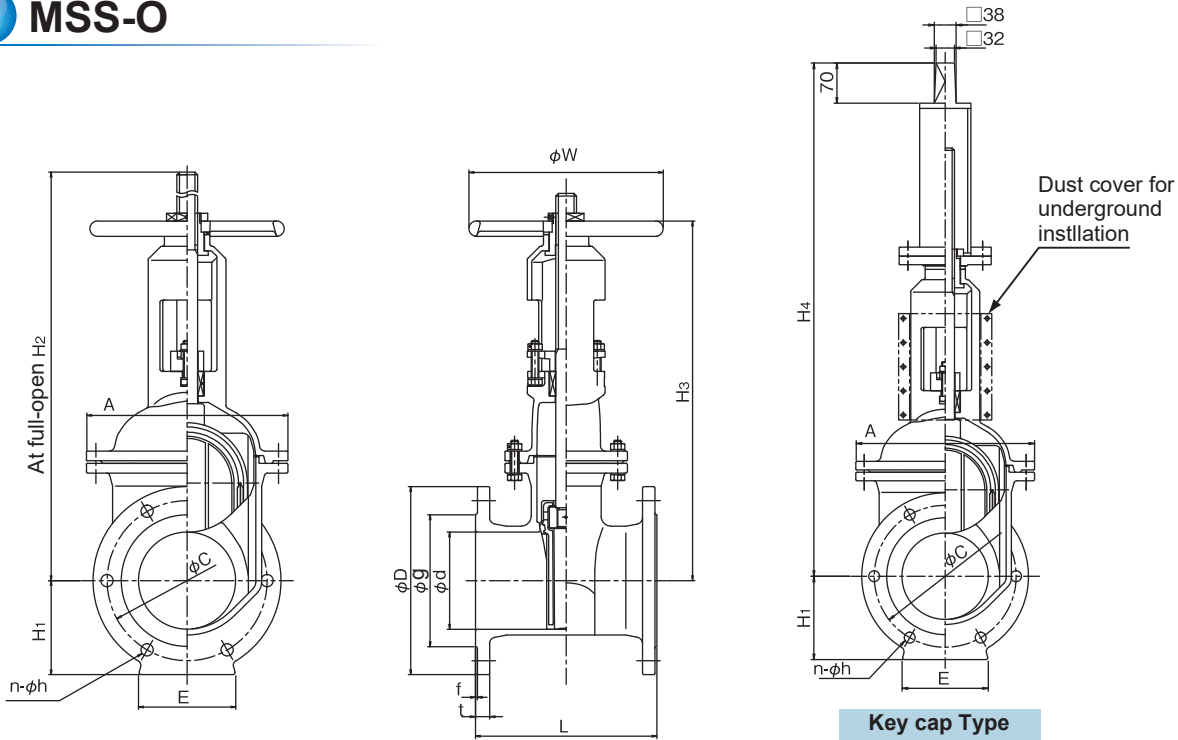


Unit : mm

Symbol Size(d)	Type2(7.5K)									Type3(10K)								
	L	H1	D	g	C	n	h	t	f	L	H1	D	g	C	n	h	t	f
50	180	78	155	96	120	4	19	16	2	180	78	155	96	120	4	19	16	2
75	240	106	211	125	168	4	19	21	3	240	93	185	126	150	8	19	18	2
100	250	119	238	152	195	4	19	21	3	250	105	210	151	175	8	19	18	2
125	260	132	263	177	220	6	19	22	3	260	125	250	182	210	8	23	20	2
150	280	145	290	204	247	6	19	22	3	280	140	280	212	240	8	23	22	2
200	300	171	342	256	299	8	19	23	3	300	165	330	262	290	12	23	22	2
250	380	205	410	308	360	8	23	24	3	380	200	400	324	355	12	25	24	2
300	400	232	464	362	414	10	23	25	3	400	223	445	368	400	16	25	24	3
350	430	265	530	414	472	10	25	26	3	430	245	490	413	445	16	25	26	3
400	470	291	582	466	524	12	25	27	3	470	280	560	475	510	16	27	28	3
450	500	326	652	518	585	12	27	28	3	500	310	620	530	565	20	27	30	3
500	530	353	706	572	639	12	27	29	4	530	338	675	585	620	20	27	30	3

Symbol Size(d)	Type4(16K)									Type2, 3 and 4					Stem	
	L	H1	D	g	C	n	h	t	f	A	E	H2	with		Number of turns close to open	Allowable Error
													H3	W		
50	250	78	155	96	120	8	19	16	2	173	70	285	261	180	13	+3 0
75	280	100	200	132	160	8	23	20	2	200	90	330	316	300	13	
100	300	113	225	160	185	8	23	22	2	230	90	365	351	300	17	
125	325	135	270	195	225	8	25	22	2	280	110	495	432	300	21	
150	350	153	305	230	260	12	25	24	2	311	150	452	446	400	19	
200	400	175	350	275	305	12	25	26	2	373	180	540	534	400	25	
250	450	215	430	345	380	12	27	28	2	432	200	624	625	500	25	
300	500	240	480	395	430	16	27	30	3	500	240	710	711	500	30	
350	N / A									582	270	960	906	500	35	+5 0
400										638	300	1045	990	600	33	
450										704	330	1145	1090	600	38	
500										760	360	1230	1175	600	42	

## MSS-O



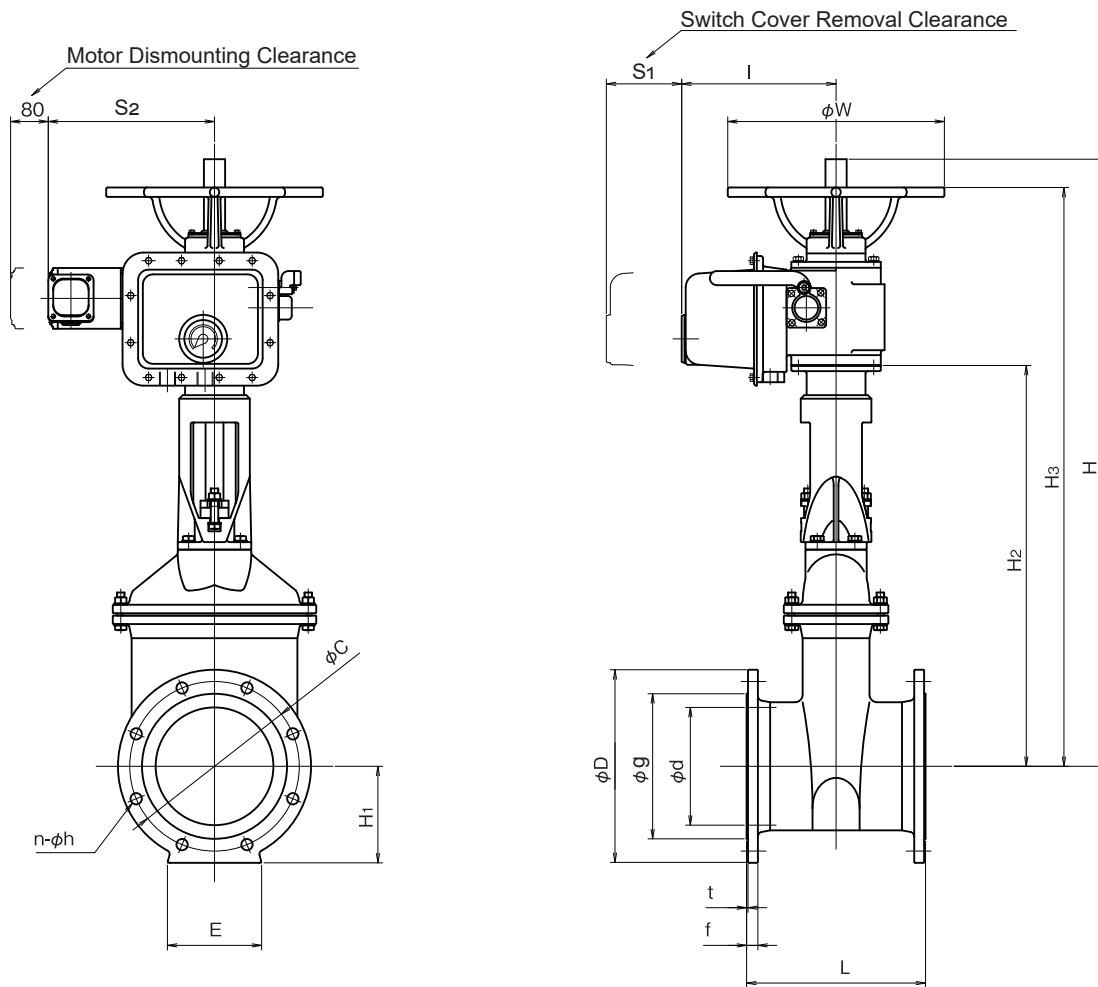
Key cap Type

Unit : mm

Symbol Size(d)	Type2(7.5K)									Type3(10K)								
	L	H1	D	g	C	n	h	t	f	L	H1	D	g	C	n	h	t	f
50	180	78	155	96	120	4	19	16	2	180	78	155	96	120	4	19	16	2
75	240	106	211	125	168	4	19	21	3	240	93	185	126	150	8	19	18	2
100	250	119	238	152	195	4	19	21	3	250	105	210	151	175	8	19	18	2
125	260	132	263	177	220	6	19	22	3	260	125	250	182	210	8	23	20	2
150	280	145	290	204	247	6	19	22	3	280	140	280	212	240	8	23	22	2
200	300	171	342	256	299	8	19	23	3	300	165	330	262	290	12	23	22	2
250	380	205	410	308	360	8	23	24	3	380	200	400	324	355	12	25	24	2
300	400	232	464	362	414	10	23	25	3	400	223	445	368	400	16	25	24	3
350	430	265	530	414	472	10	25	26	3	430	245	490	413	445	16	25	26	3
400	470	291	582	466	524	12	25	27	3	470	280	560	475	510	16	27	28	3
450	500	326	652	518	585	12	27	28	3	500	310	620	530	565	20	27	30	3
500	530	353	706	572	639	12	27	29	4	530	338	675	585	620	20	27	30	3

Symbol Size(d)	Type4(16K)									Type2, 3 and 4					Stem		
	L	H1	D	g	C	n	h	t	f	A	E	with Handwheel			key cap	Number of turns close to open	Allowable Error
												H2	H3	W			
50	250	78	155	96	120	8	19	16	2	173	70	359	277	200	500	13	+3 0
75	280	100	200	132	160	8	23	20	2	200	90	463	352	250	598	13	
100	300	113	225	160	185	8	23	22	2	230	90	537	401	250	675	17	
125	325	135	270	195	225	8	25	22	2	280	110	671	510	300	817	21	
150	350	153	305	230	260	12	25	24	2	311	150	747	558	300	894	19	
200	400	175	350	275	305	12	25	26	2	373	180	966	724	400	1106	25	
250	450	215	430	345	380	12	27	28	2	432	200	1167	873	400	1314	25	
300	500	240	480	395	430	16	27	30	3	500	240	1359	1015	500	1510	30	
350	N / A									582	270	1600	1027	500	1752	35	+5 0
400										638	300	1983	1502	550	2069	33	
450										704	330	2205	1668	550	2270	38	
500										760	360	2360	1743	550	2418	42	

MSS-O-E

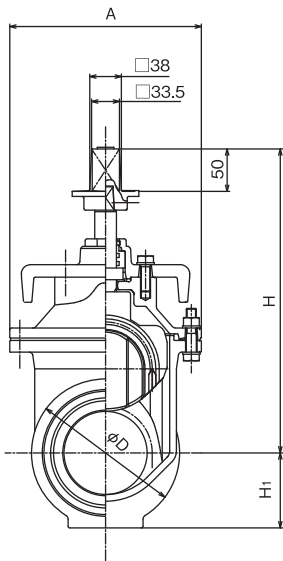


Unit : mm

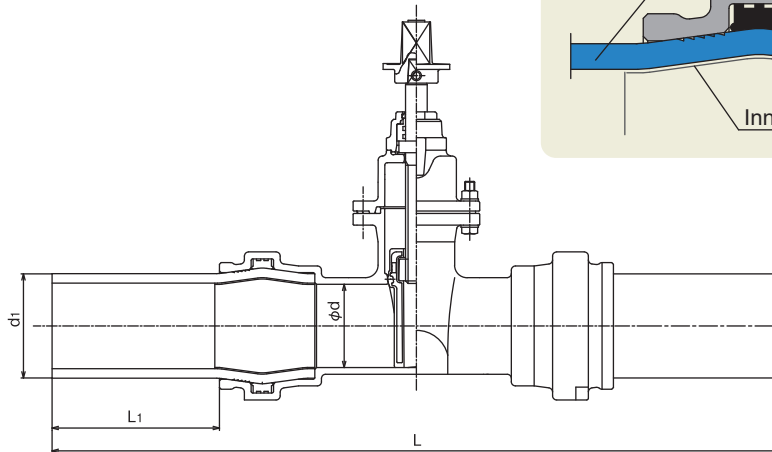
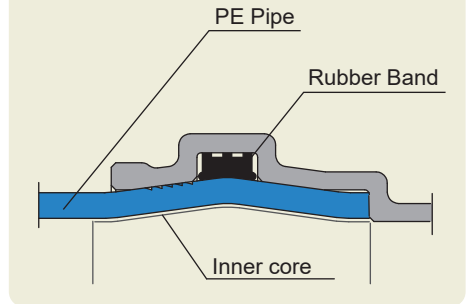
Symbol Size(d)	Type2(7.5K)									Type3(10K)								
	L	H1	D	g	C	n	h	t	f	L	H1	D	g	C	n	h	t	f
50	180	78	155	96	120	4	19	16	2	180	78	155	96	120	4	19	16	2
75	240	106	211	125	168	4	19	21	3	240	93	185	126	150	8	19	18	2
100	250	119	238	152	195	4	19	21	3	250	105	210	151	175	8	19	18	2
150	280	145	290	204	247	6	19	22	3	280	140	280	212	240	8	23	22	2
200	300	171	342	256	299	8	19	23	3	300	165	330	262	290	12	23	22	2
250	380	205	410	308	360	8	23	24	3	380	200	400	324	355	12	25	24	2
300	400	232	464	362	414	10	23	25	3	400	223	445	368	400	16	25	24	3

Symbol Size(d)	Type2 / Type3								Motor Capacity	
	E	H	H2	H3	I	S1	W	S2		kw Type 2 and 3
								without Brake	with Brake	
50	70	522	262	522	284	140	220	325	375	M-01 0.2kW
75	90	594	334	594	284	140	220	325	375	M-01 0.2kW
100	90	663	383	643	284	140	220	325	375	M-01 0.2kW
150	150	916	538	916	328	160	460	357	418	M-02 0.4kW
200	180	1080	702	1080	328	160	460	357	418	M-02 0.4kW
250	200	1289	851	1229	328	160	460	357	418	M-02 0.4kW
300	240	1515	987	1365	328	160	460	375	464	M-02 0.75kW

**MSS-BLP**



Enlarged view of end connection



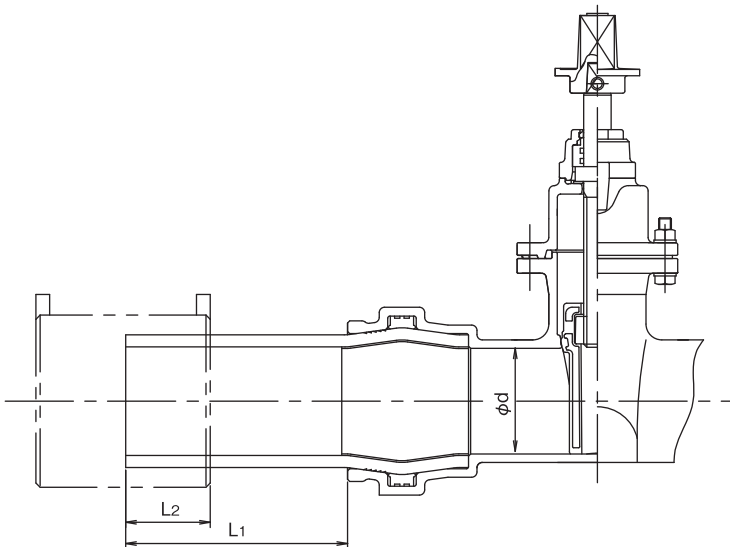
Unit : mm

Symbol Size(d)	Type2(7.5K)						
	L±20	L1	D	d1	H	H1	A
50	653	158	100	63	285	51	173
75	780	180	139	90	330	70	200
100	860	210	179	125	365	90	230
150	1070	270	247	180	452	124	311
200	1280	318	326	250	540	163	373

\*Can not be connected with JIS pipe

**End Connection (with spigot pipe)**

The spigot pipe has enough length to connect for two times.  
If you fail to connect once, cut to remove the pipe end and reconnect.

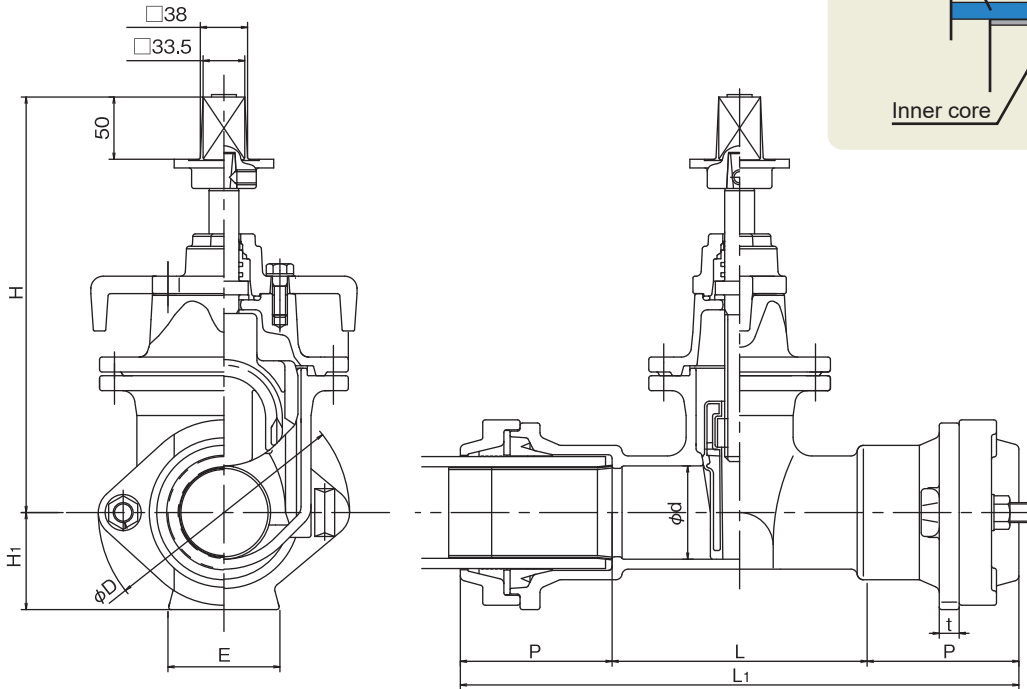
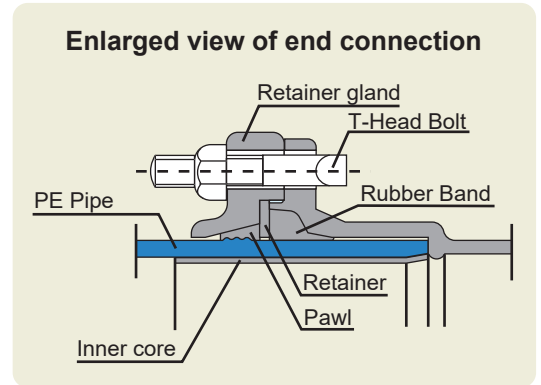


Unit : mm

Symbol Size(d)	Type2(7.5K)	
	L1	L2
50	158	54
75	180	65
100	210	80
150	270	100
200	318	124

# Manual For PE Pipe(Socket Type) Non-Rising Stem Type

## MSS-P



Unit : mm

Symbol Size(d)	Type2(7.5K)								PE Pipe Outer diameter
	L	L1	P	H	H1	E	D	t	
50	165	400	117.5	285	61	70	168	14	63
75	205	449	122	330	80	90	200	16	90
100	220	474	127	365	97	90	235	16	125
150	250	514	132	452	136	164	290	16	180

\*Can not be connected with JIS pipe.  
\*The fitting is conforming to PTC G 30 standard.

Any information in this document is subject to change without notice.

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