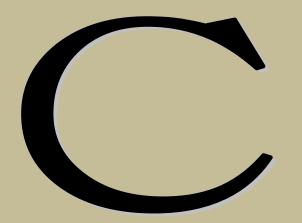


Various Connections, Wide Range Line-up!

ZD • ZC Series

Excellent Cracking Characteristics, Corresponding to Various Connections!





heck Valves

Check valves made stainless steel

IHARA SCIENCE CORPORATION

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6	Dimension Sheet, ZD/ZC Series
7	Example of Custom Products

Features

- Compact and Light
- Applicable fluid : Water, Air, Gas(N2)
- Range of Working Temperature : $0^{\circ}C \sim 200^{\circ}C$ (Fluro-rubber)
 - * When operating initially, try to move the poppet once, before putting into operation, as the O-ring may be close contact.
- Max Working Pressure : 5 MPa
- Wide selection, Easy choice, Standardized Half union type
 - * BI-LOK connection : 1/40D 3/80D 1/20D ϕ 6 ϕ 8 ϕ 10 ϕ 12
 - * Screwed connection(R, NPT): 1/8 1/4 3/8 1/2
 - * We will be corresponding to the different shape and dimension from this catalogue, please inguire us regardless of quantity.

Cracking Features

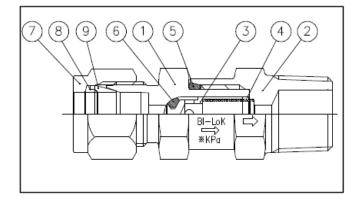
	Pressure	Product	*	
PSIG	Kpa	Мра	label	*
1/3	1.96	0.003	2KPa	2
1	6.86	0.007	7KPa	7
10	68.6	0.069	70KPa	70

* Cracking pressure other than those listed above will be considered.

* In case of lower cracking pressure than 10KPa, the reverse pressure might be necessary, to re-seal of poppet

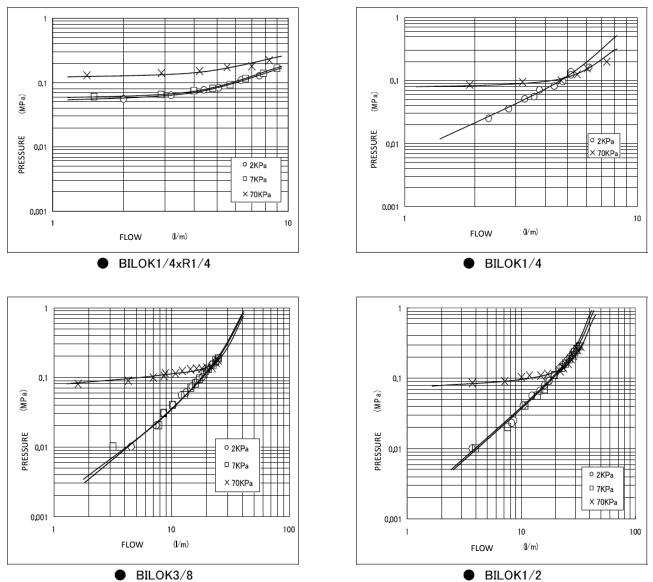
• Reverse pressure is as below

Size	Necessary reverse pressure
\geq (1/40D or 1/4 or \oplus 6)	Over 40KPa
1/40D or 1/4 or Φ 6 $<$	Over 60KPa



No	Part Name	Material
1	Body A	SUS316
2	Body B	SUS316
3	Poppet	SUS316
4	Spring	SUS316
5	O-ring	Fluro-rubber
6	O-ring	Fluro-rubber
\bigcirc	Nut	SUS316
8	Front ferrule	SUS316
9	Back ferrule	SUS316

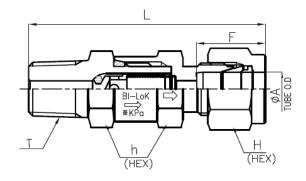
Graph of Flow rate Characteristic per Craking Pressure



BILOK3/8

CHECK VALVE ZD SERIES

HALF UNION

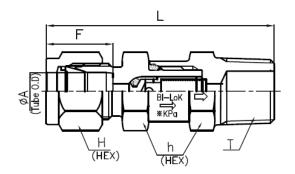


FLOW	Part No	[IN] T	[OUT]	ØA		ı	-	-	F	L
		R	INCH	MM	INCH	MM	INCH	MM		
	ZD—2RM4D—S—*KPa	1/8	1/4	6.35	5/8	15.88	9/16	14.29	15.4	50.5
	ZD-4RM2D-S-*KPa	1/4	1/8	3.18	5/8	15.88	1/2	12.7	13.0	52.4
R → INCH BILOK	ZD—4RM4D—S—*KPa	1/4	1/4	6.35	5/8	15.88	9/16	14.29	15.4	54.0
	ZD—6RM6D—S—*KPa	3/8	3/8	9.53	15/16	23.81	11/16	17.46	17.0	72.2
	ZD-8RM8D-S-*KPa	1/2	1/2	12.7	15/16	23.81	7/8	22.23	23.0	80.1
	ZD-2RM6MD-S-*KPa	1/8	-	6	-	17	—	14	15.4	50.2
	ZD-4RM6MD-S-*KPa	1/4	-	6	-	17	—	14	15.4	54.5
R → M BILOK	ZD-4RM8MD-S-*KPa	1/4	-	8	_	17	—	17	16.3	55.7
	ZD-4RM10MD-S-*KPa	1/4	_	10	_	24	_	19	17.3	73.2
	ZD—6RM12MD—S—*KPa	3/8	_	12	-	24	—	22	22.9	80.4
	ZD—8RM12MD—S—*KPa	1/2	_	12	_	24	_	22	22.9	84.4

FLOW	Part No	[IN] T	[0UT]	ØA	-	n	-	1	F	L
16000		NPT	INCH	MM	INCH	MM	INCH	MM		
	ZD—2NM4D—S—*KPa	1/8	1/4	6.35	5/8	15.88	9/16	14.29	15.4	50.5
NPT →	ZD—4NM4D—S—*KPa	1/4	1/4	6.35	5/8	15.88	9/16	14.29	15.4	54.0
	ZD-6NM4D-S-*KPa	3/8	1/4	6.35	11/16	17.46	9/16	14.29	15.4	54.0
	ZD-6NM6D-S-*KPa	3/8	3/8	9.53	15/16	23.81	11/16	17.46	17.0	72.2
	ZD-8NM8D-S-*KPa	1/2	1/2	12.7	15/16	23.81	7/8	22.23	23.0	79.6
	ZD—2NM6MD—S—**KPa	1/8	-	6	-	17	-	14	15.4	50.2
NPT →	ZD-4NM6MD-S-*KPa	1/4	-	6	-	17	—	14	15.4	54.5
M BILOK	ZD—4NM8MD—S—*KPa	1/4	-	8	-	17	—	17	16.3	55.7
	ZD—6NM12MD—S—*KPa	3/8	—	12	_	24	_	22	22.9	80.4
	ZD-8NM12MD-S-*KPa	1/2	-	12	-	24	-	22	22.9	84.4

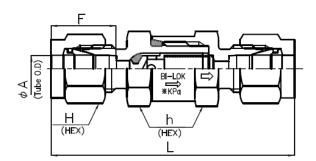
CHECK VALVE ZD SERIES

HALF UNION



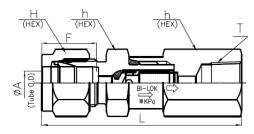
FLOW	Part No	[IN	ØA	[OUT] T	ł	า	ŀ	4	F	L
11000		INCH	ММ	R	INCH	MM	INCH	MM	ММ	MM
	ZD—4D2RM—S—*KPa	1/4	6.35	1/8	5/8	15.88	9/16	14.29	15.4	50.5
	ZD—4D4RM—S—*KPa	1/4	6.35	1/4	5/8	15.88	9/16	14.29	15.4	55.0
INCH-BILOK →	ZD—4D6RM—S—*KPa	1/4	6.35	3/8	11/16	17.46	9/16	14.29	15.4	55.9
R	ZD—6D4RM—S—*KPa	3/8	9.53	1/4	15/16	23.81	11/16	17.46	17.0	71.2
	ZD-6D6RM-S-*KPa	3/8	9.53	3/8	15/16	23.81	11/16	17.46	17.0	72.2
	ZD—8D8RM—S—*KPa	1/2	12.7	1/2	15/16	23.81	7/8	22.23	23.0	79.6
	ZD—6MD4RM—S—*KPa	—	6	1/4	-	17	I	14	15.4	54.5
	ZD—8MD4RM—S—*KPa	-	8	1/4	-	17		17	16.3	55.7
M-BILOK → R	ZD—10MD6RM—S—**KPa	_	10	3/8	_	24		19	17.3	76.7
	ZD—12MD8RM—S—*KPa	_	12	1/2	—	24	_	22	22.9	80.7

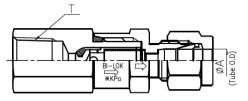
UNION



	Part No	[IN-OU	–OUT]øA h		ı	н		F	L
FLOW		INCH	ММ	INCH	MM	INCH	ММ	MM	MM
	ZD—2D—S—*KPa	1/8	3.18	5/8	15.88	7/16	11.11	13.0	57.4
INCH–BILOK →	ZD—4D—S—*KPa	1/4	6.35	5/8	15.88	9/16	14.29	15.4	59.1
INCH-BILOK	ZD-6D-S-*KPa	3/8	9.53	15/16	23.81	11/16	17.46	17.0	76.4
	ZD—8D—S—*KPa	1/2	12.7	15/16	23.81	7/8	22.23	23.0	82.1
	ZD-6MD-S-*KPa	_	6	-	17	-	14	15.4	58.2
M–BILOK →	ZD-8MD-S-*KPa	-	8	-	17	-	17	16.3	61.0
M-BILOK	ZD—10MD—S—*KPa	_	10	_	24	-	19	17.3	78.3
	ZD—12MD—S—*KPa	_	12	-	24	_	22	22.9	84.5

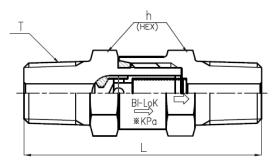
HALF UNION





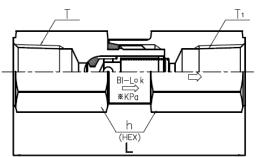
FLOW	Part No	[IN]	ØА мм	[OUT] T c	INCH	л ММ	INCH	Н	F	L
	ZD-4D4RF-S-*KPa	1/4	6.35	1/		3/4	19.05	9/16	14.29	15.4	58.5
INCH−BILOK → Rc	ZD—4D6RF—S—*KPa	1/4	6.35	3/	′8	7/8	22.23	9/16	14.29	15. 4	59.5
	ZD—6D4RF—S—*KPa	3/8	9.53	1/	′ 4	15/16	23.81	11/16	17.46	17.0	72.9
	ZD—6D6R F —S—*KPa	3/8	9.53	3/	'8	15/16	23.81	11/16	17.46	17.0	74.4
	ZD—8D6RF—S—*KPa	1/2	12.7	3/	′8	15/16	23.81	7/8	22.23	23.0	77.2
	ZD—8D8RF—S—*KPa	1/2	12.7	1/	2	1-1/16	26.99	7/8	22.23	23.0	82.7
FLOW	Part No	[IN]		[OUT]		ł		ł	-	F	L
		R		INCH	MM	INCH	ММ	INCH	ММ	ММ	ММ
	ZD—4RF4D—S—*KPa	1/	/4	1/4	6.35	3/4	19.05	9/16	14.29	15.4	56.2
	ZD—4RF6D—S—*KPa	1/	/4	3/8	9.53	15/16	23.81	11/16	17.46	17.0	71.7
Rc →	ZD—6RF4D—S—*KPa	3/	⁄8	1/4	6.35	15/16	23.81	9/16	14.29	15.4	58.4
INCH-BILOK	ZD—6RF6D—S—*KPa	3/	⁄8	3/8	9.53	15/16	23.81	11/16	17.46	17.0	73.9
	ZD—8RF6D—S—*KPa	1/	⁄2	3/8	9.53	1-1/16	26.99	11/16	17.46	17.0	80.3
	ZD—8RF8D—S—*KPa	1/	/2	1/2	12.7	1-1/16	26.99	7/8	22.23	23.0	84.2

NIPPLE



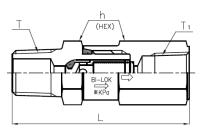
FLOW	Part No	[IN-OUT] T	h	L
16000		R	ММ	MM
	ZD—2RM—S—*KPa	1/8	17	42.5
R → R	ZD—4RM—S—*KPa	1/4	17	50.5
	ZD—6RM—S—**KPa	3/8	24	69.0
	ZD—8RM—S—*KPa	1/2	24	76.0

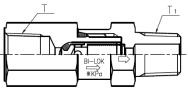
SOKET



FLOW	Part No	[IN-OUT] T	h	L
FLOW		Rc	ММ	ММ
	ZD—4RF—S—* KPa	1/4	17	54.5
Rc → Rc	ZD—6RF—S—*KPa	3/8	24	71.0
	ZD—8RF—S—*KPa	1/2	27	79.0

	Part No	[IN-OUT] T	h	L
FLOW		NPT	MM	ММ
NPT → NPT	ZD -4NF- S- * KPa	1/4	17	54.5
	ZD-6NF-S-*KPa	3/8	24	71.0
	ZD-8NF-S-*KPa	1/2	27	79.0



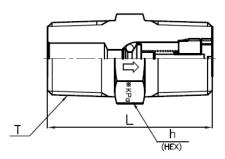


	Part No	[IN] T	[OUT] T1	F	L
FLOW		R	Rc	MM	ММ
R → Rc	ZD—2RM2RF—S—*KPa	1/8	1/8	17	45.0
	ZD—4RM4RF—S—**KPa	1/4	1/4	17	52.5
	ZD—6RM6RF—S—*KPa	3/8	3/8	24	70.0
	ZD-8RM8RF-S-*KPa	1/2	1/2	27	78.0

	Part No	[IN] T	[OUT] T1	F	L
FLOW		Rc	R	ММ	ММ
Rc → R	ZD-2RF2RM-S-*KPa	1/8	1/8	17	45.0
	ZD-4RF4RM-S-*KPa	1/4	1/4	17	52.5
	ZD-6RF6RM-S-*KPa	3/8	3/8	24	70.0
	ZD-8RF8RM-S-*KPa	1/2	1/2	27	78.0

CHECK VALVE ZC SERIES

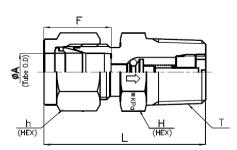
COMPACT NIPPLE



	Part No	[IN-OUT] T	F	L
FLOW		R	ММ	ММ
R → R	ZC-4RM-S-*KPa	1/4	17	36.0
	ZC—6RM—S—*KPa	3/8	19	38.0
	ZC—8RM—S—*KPa	1/2	24	50.0

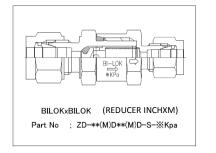
FLOW	Part No	[IN-OUT] T	F	L
15010		NPT	MM	MM
NPT → NPT	ZC-4NM-S-*KPa	1/4	17	36.0
	ZC-6NM-S-*KPa	3/8	19	38.0

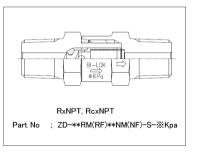
COMPACT HALF UNION

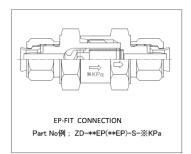


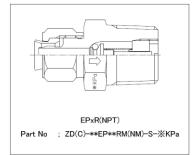
FLOW	Part No	[IN]	ØA	[OUT] T1	ł	า	ŀ	ł	F	L
		INCH	ММ	R	INCH	ММ	INCH	ММ	ММ	MM
INCH–BILOK → R	ZC—4D4RM—S—*KPa	1/4	6.35	1/4	9/16	14.29	9/16	14.29	15.4	37.8
	ZC—4D6RM—S—*KPa	1/4	6.35	3/8	11/16	17.46	9/16	14.29	15.4	39.5
	ZC—6D4RM—S—*KPa	3/8	9.53	1/4	5/8	15.88	11/16	17.46	17.0	40.0
	ZC-6D6RM-S-*KPa	3/8	9.53	3/8	11/16	17.46	11/16	17.46	17.0	41.0
	ZC—8D8RM—S—*KPa	1/2	12.7	1/2	7/8	22.23	7/8	22.23	23.0	47.8
M–BILOK → R	ZC—6MD4RM—S—*KPa	—	6	1/4	—	17	-	14	15.4	40.2
	ZC—10MD4RM—S—*KPa	_	10	1/4	_	19	_	19	17.3	41.1
	ZC—12MD6RM—S—**KPa	_	12	3/8	-	22	_	22	22.9	44.5

CUSTOM PRODUCT ZD ZC SERIES

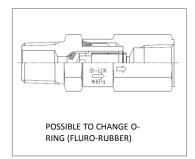












WARNING: If your don't select and handle fittings, valves and related accessories in an adequate manner, it may damage human beings and applicable systems. Within the responsibility and authorization of users and piping desiners, fittings, valves and related accessories shall be adequately selected, assembled, used and maintained based on the applicable conditions and product conformity to the system to be applied. Please read carefully our operation manual and feel free to contact with IHARA SCIENCE CORPORATION if you have any question of request.



URL: http://www.ihara-sc.co.jp

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