

J&O FLUID CONTROL CO., LIMITED

Sanitary Union



J&O FLUID CONTROL CO., LIMITED

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Mob./WhatsApp: +86 186 5778 5727

Site: www.sanitary-valves.com

Email: Info@jo-pv.com

With more than 15 years of market experiences, we have become the leading supplier service for pharmaceutical, chemical, food, Beverage and Lithium battery companies



Site Code



WhatsApp Code

J&O BRAND, RELIABLE QUALITY FOR YOU

CE&ISO 9001:2015 CERTIFIED ACQUIRED

15 YEARS FLUID SOLUTION EXPERIENCES

EXPORTING TO OVER 40 COUNTRIES

EXCELLENT VALUE-ADDED SERVICE.



We focus on Details
We Make Different
J&O Brand, that can be trust.

J&O PROFILE

J&O Fluid Control Co., Limited established in 2008, a leading Manufacturer and Supplier of high quality hygienic stainless steel flow control equipments.

J&O services the Food, Dairy, Beverage, Cosmetic, Pharmaceutical, Biological engineering, Lithium battery, Semiconductor, Water treatment, Petroleum and Chemical industries.

J&O product series consists of sanitary stainless steel Valves & Fittings:

- >> Sanitary Stainless Steel Pumps
- >> Sanitary Stainless Steel Valves
- >> Stainless Steel Tank Accessories
- >> Stainless Steel Pipe Fittings
- >> Stainless Steel Flanges
- >> Stainless Steel Double Ferrule Tube Fittings
- >> Hydraulic Pneumatic Quick Coupling
- >> Carbon Steel Pipe Fittings
- >> Customized Valve and Fittings

Through the years, "Perfection" has been the only goal we pursue. In order to satisfy customers, with continuous efforts, we are working towards perfection through a Quality Assurance System. With persistence and effort, we have become one of the leading enterprises of sanitary valves and pipe fittings in China.

Our organization is dedicated to provide our customers with best service of every aspect. We strongly believe, that the friendship and trust given by our customers, is the great treasure we have.

J&O[®]

J&O FLUID CONTROL CO., LIMITED

QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificate No. : 20221Q21325R05

We hereby certify that the organization:

WENZHOU J&O FLUID CONTROL CO., LTD

Unified social credit code: 91330303307697906R

is in conformity with Quality Management System Standard:

GB/T19001-2015 idt ISO9001:2015

The certificate is valid to the following products/service:

**Export of centrifugal pumps,
stainless steel valves and pipe fittings**

Registration Address: ROOM 901-1, 4TH BUILDING, CAIZHI MANSION,
YONGZHONG STREET, LONGWAN, WENZHOU, PROVINCE CHINA
Audit Address: Room 602, Metal Building, Yongzhong Steel, Longwan District,
Wenzhou City, Zhejiang Province, China.


Issued By

Date of Issue: 30-11-2021

Date of Expiry: 29-11-2024

Date of Initial: 30-11-2021

中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C197-M

The audit of validity of the certificate, the certificate shall be at least once a year.
The effectiveness of the Certificate is subject to QR Code in the lower left corner.
Meanwhile, you can search the website of certification body: www.qcs.org.cn
or search the CNCA website: www.cnca.org.cn

ZHEJIANG QUANPIN CERTIFICATION CO.,LTD.

Room 401, Floor 4, Building 1, No. 34, Fuyao Road, Fuyao Street, Shijiazhuang District, Shijiazhuang City,
Zhejiang Province, China 310003. WebSite: <http://www.qcs.org.cn>



Actuator Testing



Helium Leak Detector



Pressure Test for Large Valve



Pressure Test for Small Valve



Sanitary Union

Our Core Values: Team, Details, Altruism, Innovation and Embrace Change.

• Sanitary Union

J&O FLUID CONTROL CO., LIMITED



Sanitary Union

J&O can produce sanitary unions with DIN, SMS, 3A, IDF, RJT, ISO, DS standards. They are made of forged steel, machined by CNC.

J&O provide 3.1B certification of EN10204 for all the steel material.

All sealing materials must comply with FDA177.2600.



Technical Date

Standard	DIN, 3A, SMS, RJT, ISO, IDF, DS, Macon, GB
Size	1" - 6" DN10-DN200 17.2-168.3
Steel Material	304, 304L, 316, 316L (Forging)
Seal Material	NBR, Silicone, EPDM, VITON, PTFE
Surface Qualities	1.Ra ≤ 1.6μm
	2.Ra ≤ 0.8μm
	3.Ra ≤ 0.4 (Polished)

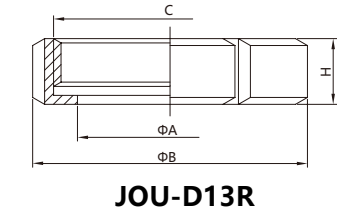
Ordering Specifications

Specify:

- Standard
- Size
- Steel material
- Seal material
- Surface quality
- Quantity

Example					
Standard	Size	Steel Material	Seal Material	Surface Quality	Quantity
3A-13	1.5"	304	/	1(Ra ≤ 1.6)	200

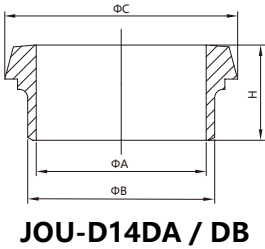
DIN11851 Unions



Nut (DIN-13R)

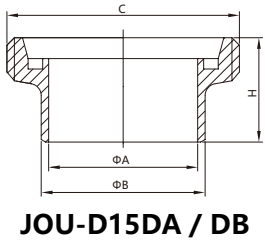
DN	A	B	C	H
10	19	38	Rd28×1/8"	18
15	25	44	Rd34×1/8"	18
20	31	54	Rd44×1/6"	20
25	36	63	Rd52×1/6"	21
32	42.5	70	Rd58×1/6"	21
40	49	78	Rd65×1/6"	21
50	62	92	Rd78×1/6"	22
60	70	99	RD 85×1/6	22
65	80	112	Rd95×1/6"	25
75/3.0"	88	120	Rd104×1/6"	26
80	94	127	Rd110×1/4"	29
100	115	148	Rd130×1/4"	31
125	138	178	Rd160×1/4"	35
150	164	210	Rd190×1/4"	40

Welding Liner (DIN-14DA / DB)



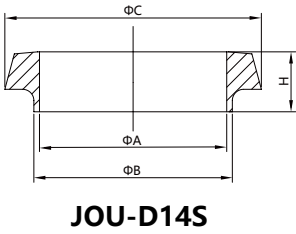
DN	DA		DB		C	H
	ØA	ØB	ØA	ØB		
10	10	13	9	12	22.5	17
15	16	19	15	18	28.5	17
20	20	23	19	22	36.5	18
25	26	29	25	28	44	22
32	32	35	31	34	50	25
40	38	41	37	40	56	26
50	50	53	49	52	68.5	28
60	57	61	57	61	76	30
65	66	70	66	70	86	32
80	81	85	81	85	100	37
100	100	104	100	104	121	44
125	125	129	125	129	150	34
150	150	154	150	154	176	37

Welding Male (DIN-15DA / DB)



DN	DA		DB		C	H
	ØA	ØB	ØA	ØB		
10	10	13	9	12	Rd28×1/8"	21
15	16	19	15	18	Rd34×1/8"	21
20	20	23	19	22	Rd44×1/6"	24
25	26	29	25	28	Rd52×1/6"	29
32	32	35	31	34	Rd58×1/6"	32
40	38	41	37	40	Rd65×1/6"	33
50	50	53	49	52	Rd78×1/6"	35
60	57	61	57	61	RD 85×1/6	36
65	66	70	66	70	Rd95×1/6"	40
80	81	85	81	85	Rd110×1/4"	45
100	100	104	100	104	Rd130×1/4"	54
125	125	129	125	129	Rd160×1/4"	46
150	150	154	150	154	Rd190×1/4"	50

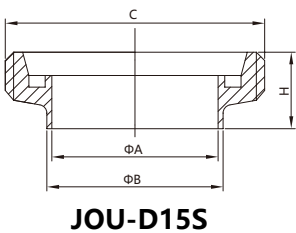
DIN11851 Unions



Welding Liner (DIN-14S)

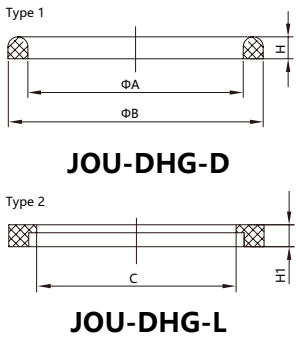
DN	A	B	C	H
10	10	13	22.5	13
15	16	19	28.5	13
20	20	23	36.5	13
25	26	29	44	15
32	32	35	50	15
40	38	41	56	15
50	50	53	68.5	16
65	66	70	86	17
80	81	85	100	17
100	100	104	121	20
125	125	129	150	23.5
150	150	154	176	27

Welding Male (DIN-15S)



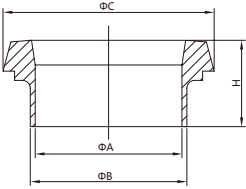
DN	A	B	C	H
10	10	13	Rd28×1/8"	17
15	16	19	Rd34×1/8"	17
20	20	23	Rd44×1/6"	19
25	26	29	Rd52×1/6"	22
32	32	35	Rd58×1/6"	22
40	38	41	Rd65×1/6"	22
50	50	53	Rd78×1/6"	23
65	66	70	Rd95×1/6"	25
80	81	85	Rd110×1/4"	25
100	100	104	Rd130×1/4"	30
125	125	129	Rd160×1/4"	35.5
150	150	154	Rd190×1/4"	40

Seal Ring Silicone/ EPDM/ Viton(FKM)



DN	A	B	C	H	H1
10	12	20	10.2	4.5	5
15	18	26	16.2	4.5	5
20	23	33	20.2	4.5	5
25	30	40	26.2	5	6
32	36	46	32.2	5	6
40	42	52	38.2	5	6
50	54	64	50.2	5	6
65	71	81	66.2	5	6
80	85	95	81.2	5	6
100	104	114	100.2	6	6
125	130	142	125.2	7	7
150	155	167	150.2	7	7

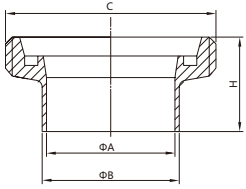
DIN11851 Unions



JOU-D14I

Welding Liner (DIN-14I)

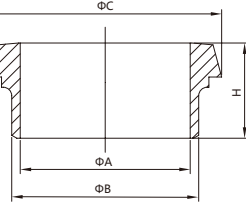
DN	A	B	C	H
1/2"	9.4	12.7	22.5	17
3/4"	15.75	19.05	28.5	17
1.0"	22.1	25.4	36.5	18
1-1/4"	28.45	31.75	44	22
1-1/2"	34.8	38.1	50	25
2.0"	47.5	50.8	68.5	28
2-1/2"	60.2	63.5	86	32
3.0"	72.9	76.2	100	37
4.0"	97.38	101.6	121	44
5.0"	121.46	127.0	150	34
6.0"	146.86	152.4	176	37



JOU-D15I

Welding Male (DIN-15I)

DN	A	B	C	H
1/2"	9.4	12.7	Rd28×1/8"	21
3/4"	15.75	19.05	Rd34×1/8"	21
1.0"	22.1	25.4	Rd52×1/6"	29
1-1/4"	28.45	31.75	Rd58×1/6"	32
1-1/2"	34.8	38.1	Rd65×1/6"	33
2.0"	47.5	50.8	Rd78×1/6"	35
2-1/2"	60.2	63.5	Rd95×1/6"	40
3.0"	72.9	76.2	Rd110×1/4"	45
4.0"	97.48	101.6	Rd130×1/4"	54
5.0"	121.46	127.0	Rd160×1/4"	46
6.0"	146.86	152.4	Rd190×1/4"	50

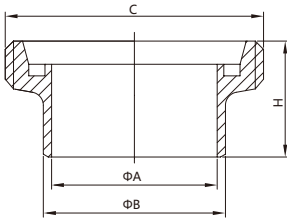


JOU-D14

Welding Liner (DIN-14)

DN	A	B	C	H
10	10	15	22.5	17
15	16	21	28.5	17
20	20	25	36.5	18
25	26	31	44	22
32	32	37	50	25
40	38	43	56	26
50	50	55	68.5	28
65	66	72	86	32
80	81	87	100	37
100	100	106	121	44
125	125	132	150	34
150	150	157	176	37

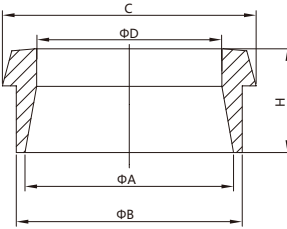
DIN11851 Unions



JOU-D15

Welding Male (DIN-15)

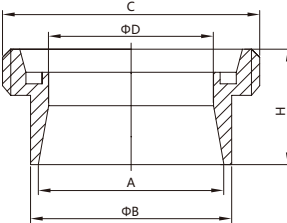
DN	A	B	C	H
10	10	15	Rd28×1/8"	21
15	16	21	Rd34×1/8"	21
20	20	25	Rd44×1/6"	24
25	26	31	Rd52×1/6"	29
32	32	37	Rd58×1/6"	32
40	38	43	Rd65×1/6"	33
50	50	55	Rd78×1/6"	35
65	66	72	Rd95×1/6"	40
80	81	87	Rd110×1/4"	45
100	100	106	Rd130×1/4"	54
125	125	132	Rd160×1/4"	46
150	150	157	Rd190×1/4"	50



JOU-D14ISO

Welding Liner (DIN / ISO)

DN	A	B	C	D	H
17.2	14	17.2	22.5	10	17
21.3	18.1	21.3	28.5	16	17
26.9	23.7	26.9	36.5	20	18
33.7	29.7	33.7	44	26	22
42.4	38.4	42.4	50	32	25
48.3	44.3	48.3	56	38	26
60.3	56.3	60.3	68.5	50	28
76.1	71.5	76.1	86	66	32
88.9	84.3	88.9	100	81	37
114.3	109.1	114.3	121	100	44
139.7	134.5	139.7	150	125	34
168.3	163.1	168.3	176	150	37

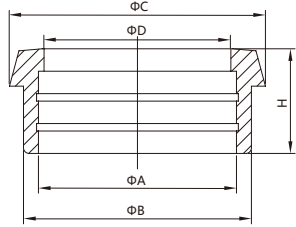


JOU-D15ISO

Welding Male (DIN / ISO)

DN	A	B	C	D	H
17.2	14	17.2	Rd28×1/8"	10	21
21.3	18.1	21.3	Rd34×1/8"	16	21
26.9	23.7	26.9	Rd44×1/6"	20	24
33.7	29.7	33.7	Rd52×1/6"	26	29
42.4	38.4	42.4	Rd58×1/6"	32	32
48.3	44.3	48.3	Rd65×1/6"	38	33
60.3	56.3	60.3	Rd78×1/6"	50	35
76.1	71.5	76.1	Rd95×1/6"	66	40
88.9	84.3	88.9	Rd110×1/4"	81	45
114.3	109.1	114.3	Rd130×1/4"	100	54
139.7	134.5	139.7	Rd160×1/4"	125	46
168.3	163.1	168.3	Rd190×1/4"	150	50

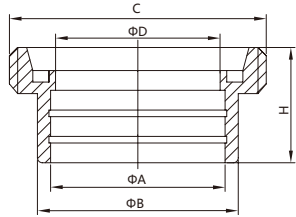
DIN11851 Unions



JOU-D14R

Expanding Liner (DIN-14R)

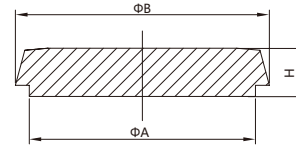
DN	A	B	C	D	H1
10	12.2	18	22.5	10	17
15	18.2	24	28.5	16	17
20	22.2	30	36.5	20	18
25	28.2	35	44	26	22
32	34.2	41	50	32	25
40	40.2	48	56	38	26
50	52.2	61	68.5	50	28
65	70.3	79	86.0	66	32
80	85.3	93	100	81	37
100	104.3	114	121	100	44
101.6	101.8	114	121	100	54
125	129.3	137	150	125	34
150	154.3	163	176	150	37



JOU-D15R

Expanding Male (DIN-15R)

DN	A	B	C	D	H
10	12.2	18	Rd28×1/8"	10	21
15	18.2	24	Rd34×1/8"	16	21
20	22.2	30	Rd44×1/6"	20	24
25	28.2	35	Rd52×1/6"	26	29
32	34.2	41	Rd58×1/6"	32	32
40	40.2	48	Rd65×1/6"	38	33
50	52.2	61	Rd78×1/6"	50	35
65	70.3	79	Rd95×1/6"	66	40
80	85.3	93	Rd110×1/4"	81	45
100	104.3	114	Rd130×1/4"	100	54
101.6	101.8	114	Rd130×1/4"	100	54
125	129.3	137	Rd160×1/4"	125	46
150	154.3	163	Rd190×1/4"	150	50

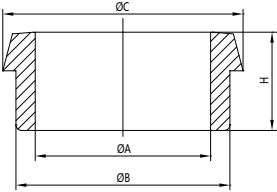


JOU-D14B

Blank Liner (DIN-14B)

DN	A	B	H
10	18	22.5	9
15	24	28.5	9
20	30	36.5	11
25	35	44	13
32	41	50	13
40	48	56	13
50	61	68.5	14
65	79	86	16
80	93	100	16
100	114	121	20
125	137	150	22
150	163	176	24

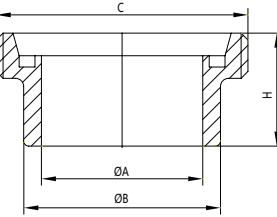
DIN11851 Unions



JOU-D14T

Thickening Liner (DIN-14T)

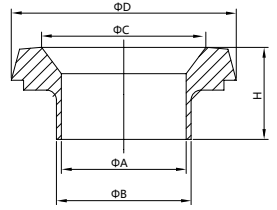
DN	A	B	C	H
10	10	18	22.5	17
15	16	24	28.5	17
20	20	30	36.5	18
25	26	35	44	22
32	32	41	50	25
40	38	48	56	26
50	50	61	68.5	28
65	66	79	86	32
80	81	93	100	37
100	100	114	121	44



JOU-D15T

Thickening Male (DIN-15T)

DN	A	B	C	H
10	10	18	RD28×1/8"	21
15	16	24	RD34×1/8"	21
20	20	30	RD44×1/6"	24
25	26	35	RD52×1/6"	29
32	32	41	RD58×1/6"	32
40	38	48	RD65×1/6"	33
50	50	61	RD78×1/6"	35
65	66	79	RD95×1/6"	40
80	81	93	RD110×1/4"	45
100	100	114	RD130×1/4"	54

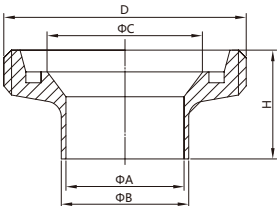


JOU-D14RL

Reducing Welding Liner (DIN-14RL)

DN	A	B	C	D	H
32-25	26	29	32	50	20
40-25	26	29	38	56	20
40-32	32	35	38	56	23
50-32	32	35	50	68.5	23
50-40	38	41	50	68.5	26
65-40	38	41	50	86	26
65-50	50	53	66	86	27
80-50	50	53	81	100	30
80-65	66	70	81	100	31
100-65	66	70	100	121	40
100-80	81	85	100	121	42

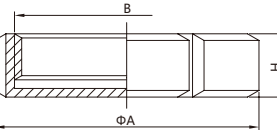
DIN11851 Unions



JOU-D15RM

Reducing Welding Male (DIN-15RM)

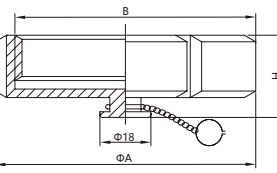
DN	A	B	C	D	H
32-25	26	29	32	Rd58×1/6"	27
40-25	26	29	38	Rd65×1/6"	28
40-32	32	35	38	Rd65×1/6"	25
50-32	32	35	50	Rd78×1/6"	29
50-40	38	41	60	Rd78×1/6"	35
65-40	38	41	66	Rd95×1/6"	39
65-50	50	53	66	Rd95×1/6"	40
80-50	50	53	81	Rd110×1/4"	45
80-65	66	70	81	Rd110×1/4"	46
100-65	66	70	100	Rd130×1/4"	55
100-80	81	85	100	Rd130×1/4"	49



JOU-D15RM

Blank Nut (DIN-15RM)

DN	A	B	H
10	38	Rd28×1/8"	18
15	44	Rd34×1/8"	18
20	54	Rd44×1/6"	20
25	63	Rd52×1/6"	21
32	70	Rd58×1/6"	21
40	78	Rd65×1/6"	21
50	92	Rd78×1/6"	22
65	112	Rd95×1/6"	25
80	127	Rd110×1/4"	29
100	148	Rd130×1/4"	31
125	178	Rd160×1/4"	35
150	210	Rd190×1/4"	40

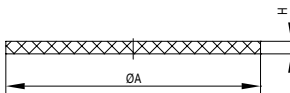


JOU-DHBN

Blank Nut With Boss (DIN-13RBN)

DN	A	B	H
10	38	Rd28×1/8"	25
15	44	Rd34×1/8"	25
20	54	Rd44×1/6"	27
25	63	Rd52×1/6"	28
32	70	Rd58×1/6"	28
40	78	Rd65×1/6"	28
50	92	Rd78×1/6"	29
65	112	Rd95×1/6"	32
80	127	Rd110×1/4"	36
100	148	Rd130×1/4"	38
125	178	Rd160×1/4"	42
150	210	Rd190×1/4"	47

DIN11851 Unions

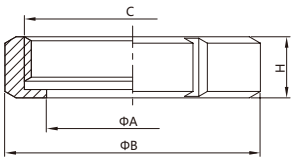


JOU-DHG-PLT

Plate Seal For Blank Nut

DN	A	H	H(PTFE)
10	28	3	1.5
15	34	3	1.5
20	44	3	1.5
25	52	3	1.5
32	58	3	1.5
40	65	3	1.5
50	78	3	1.5
65	95	3	1.5
80	110	3	1.5
100	130	3	1.5
125	160	3	1.5
150	190	3	1.5

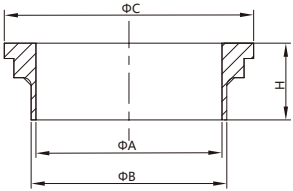
SMS



JOU-SHN

Nut (SMS-13)

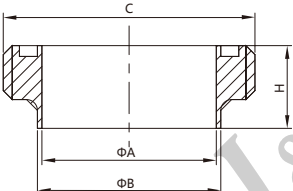
Size	A	B	C	H
25	32	51	Rd40×1/6"	20
32	40.5	60	Rd48×1/6"	22
38	48	74	Rd60×1/6"	25
51	61	84	Rd70×1/6"	26
63.5	74	100	Rd85×1/6"	30
76	87	114	Rd98×1/6"	32
101.6 (Max)	117	154	Rd132×1/6"	45
101.6 (Min)	113	140	Rd125×1/4"	32



JOU-SHLL

Welding Liner (SMS-14)

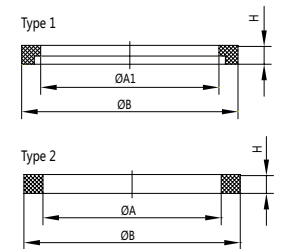
Size	A	B	C	H
25	22.5	25	35.5	15
32	29.5	32	43.5	15
38	35.5	38	55	20
51	48.5	51	65	20
63.5	60.5	63.5	80	24
76	72.9	76.1	93	24
101.6 (Max)	97.6	101.6	127	30
101.6 (Min)	97.6	101.6	118	30



JOU-SHLM

Welding Male (SMS-15)

Size	A	B	C	H
25	22.5	25	Rd40×1/6"	19
32	29.5	32	Rd48×1/6"	19
38	35.5	38	Rd60×1/6"	23
51	48.5	51	Rd70×1/6"	23
63.5	60.5	63.5	Rd85×1/6"	27
76	72.9	76.1	Rd98×1/6"	27
101.6 (Max)	97.6	101.6	Rd132×1/6"	35
101.6 (Min)	97.6	101.6	Rd125×1/4"	30

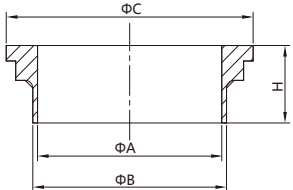


JOU-SHG

Seal Ring

Size	A	A1	B	H
25	25	22.7	31.8	5.3
32	32	29.7	39.8	5.3
38	38	35.7	47.8	5.3
51	51	45.5	60.8	5.3
63.5	63.5	60.7	73.2	5.3
76	76	72.3	85.8	5.3
101.6	101.6	97.8	103.8	5.3

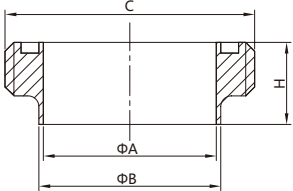
SMS



JOU-SHSL

Welding Liner (SMS-14S)

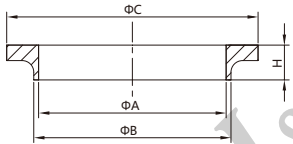
Size	A	B	C	H
25	22.5	25	35.5	10
32	29.5	32	43.5	10
38	35.5	38	55	11
51	48.5	51	65	13
63.5	60.5	63.5	80	13
76	72.9	76.1	93	14
101.6 (Max)	97.6	101.6	127	16
101.6 (Min)	97.6	101.6	118	16



JOU-SHSM

Welding Male (SMS-15S)

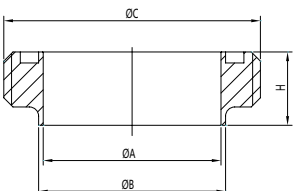
Size	A	B	C	H
25	22.5	25	Rd40×1/6"	15
32	29.5	32	Rd48×1/6"	15
38	35.5	38	Rd60×1/6"	20
51	48.5	51	Rd70×1/6"	20
63.5	60.5	63.5	Rd85×1/6"	24
76	72.9	76.1	Rd98×1/6"	24
101.6 (Max)	97.6	101.6	Rd132×1/6"	28
101.6 (Min)	97.6	101.6	Rd125×1/4"	28



JOU-SHSSL

Welding Liner (SMS-14SS)

Size	A	B	C	H
25	22.5	25	35.5	7.5
32	29.5	32	43.5	7.5
38	35.5	38	55	9
51	48.5	51	65	9
63.5	60.5	63.5	80	9
76	72.9	76.1	93	10
101.6 (Max)	97.6	101.6	127	12
101.6 (Min)	97.6	101.6	118	12

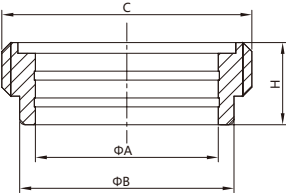


JOU-SHSSM

Short Welding Male (SMS-15SS)

Size	A	B	C	H
25	22.5	25	RD40×1/6"	15
32	29.5	32	RD48×1/6"	15
38	35.5	38	RD60×1/6"	18
51	48.5	51	RD70×1/6"	20
63.5	60.5	63.5	RD85×1/6"	20
76	72.9	76.1	RD98×1/6"	21
101.6	97.6	101.6	RD125×1/4"	26

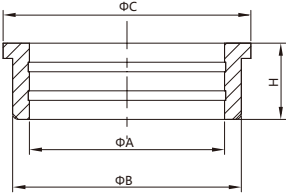
SMS



JOU-S15R

Expanding Male (SMS-15R)

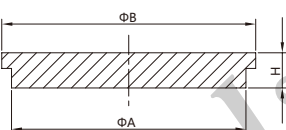
Size	A	B	C	H
25	25.2	31.5	Rd40×1/6"	19
32	32.2	40	Rd48×1/6"	19
38	38.2	47.5	Rd60×1/6"	23
51	51.2	60	Rd70×1/6"	23
63.5	63.7	73.5	Rd85×1/6"	27
76	76.3	86.5	Rd98×1/6"	27
101.6 (Max)	101.8	116.5	Rd132×1/6"	35
101.6 (Min)	101.8	112.5	Rd125×1/4"	30



JOU-S14R

Expanding Liner (SMS-14R)

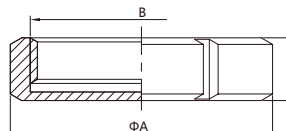
Size	A	B	C	H
25	25.2	31.5	35.5	15
32	32.2	40	43.5	15
38	38.2	47.5	55	20
51	51.2	60	65	20
63.5	63.7	73.5	80	24
76	76.3	86.5	93	24
101.6 (Max)	101.8	116.5	127	27
101.6 (Min)	101.8	112.5	118	27



JOU-S14B

Blank Liner (SMS-14B)

Size	A	B	H
25	31.5	35.5	7.5
32	40	43.5	8
38	47.5	55	8
51	60	65	8
63.5	73.5	80	9
76	86.5	93	11
101.6 (Max)	116.5	127	12
101.6 (Min)	112.5	118	12

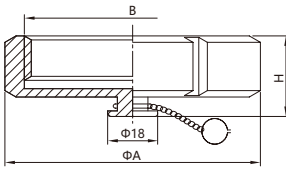


JOU-S13RB

Blank Nut (SMS-13RB)

Size	A	B	H
25	51	Rd40×1/6"	20
32	60	Rd48×1/6"	22
38	74	Rd60×1/6"	25
51	84	Rd70×1/6"	26
63.5	100	Rd85×1/6"	30
76	114	Rd98×1/6"	32
101.6 (Max)	154	Rd132×1/6"	45
101.6 (Min)	140	Rd125×1/4"	32

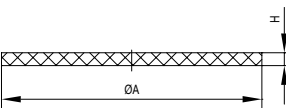
SMS



JOU-S13RBN

Blank Nut With Boss (SMS-13RBN)

Size	A	B	H
25	51	Rd40×1/6"	27
32	60	Rd48×1/6"	29
38	74	Rd60×1/6"	32
51	84	Rd70×1/6"	33
63.5	100	Rd85×1/6"	37
76	114	Rd98×1/6"	39
101.6 (Max)	154	Rd132×1/6"	52
101.6 (Min)	140	Rd125×1/4"	39

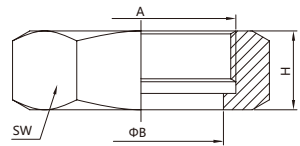


JOU-SHG-PLT

Plate Seal For SMS Blank Nut

Size	A	H	H(PTFE)
25	40	3	1.5
32	48	3	1.5
38	60	3	1.5
51	70	3	1.5
63.5	85	3	1.5
76	98	3	1.5
101.6	125	3	1.5

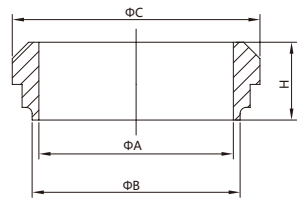
3A



JOU-A13H

Hexagonal Nut (3A-13H)

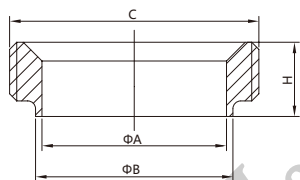
Size	A	B	H	SW
1.0"	38.02×8TPI ACME	30.3	23	46
1.5"	51.54×8TPI ACME	43.4	24.6	61.1
2.0"	65.05×8TPI ACME	56.5	27	76.2
2.5"	78.56×8TPI ACME	69.6	29.6	91.3
3.0"	92.08×8TPI ACME	82.7	32.5	106.4
4.0"	120.14×6TPI ACME	108.9	38.1	137.6



JOU-A14

Welding Liner (3A-14)

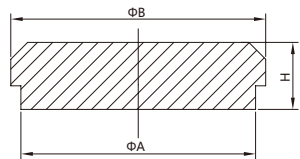
Size	A	B	C	H
1.0"	22.1	25.4	33.3	18.2
1.5"	34.8	38.1	46.9	18.2
2.0"	47.5	50.8	60.5	19
2.5"	60.2	63.5	74	22.2
3.0"	72.9	76.2	87.5	23.1
4.0"	97.38	101.6	114.5	26.2



JOU-A15

Welding Male (3A-15)

Size	A	B	C	H
1.0"	22.1	25.4	37.13×8TPI ACME	18.3
1.5"	34.8	38.1	50.65×8TPI ACME	18.3
2.0"	47.5	50.8	64.16×8TPI ACME	19.1
2.5"	60.2	63.5	77.67×8TPI ACME	22.2
3.0"	72.9	76.2	91.19×8TPI ACME	23.1
4.0"	97.38	101.6	119.25×6TPI ACME	26.2

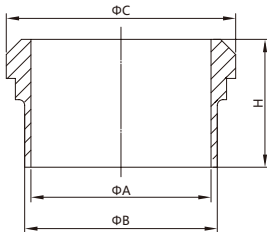


JOU-A14B

Blank Liner (3A-14B)

Size	A	B	H
1.0"	22.1	33.3	11.9
1.5"	34.8	46.9	14.3
2.0"	47.5	60.5	15.9
2.5"	60.2	74	16.7
3.0"	72.9	87.5	18.3
4.0"	97.38	114.5	20.6

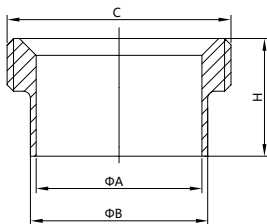
3A



JOU-A14L

Welding Liner (3A-14L)

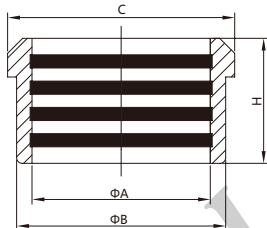
Size	A	B	C	H
1.0"	22.1	25.4	33.3	34.9
1.5"	34.8	38.1	46.9	38.1
2.0"	47.5	50.8	60.5	38.1
2.5"	60.2	63.5	74	44.5
3.0"	72.9	76.2	87.5	44.5
4.0"	97.38	101.6	114.5	44.5



JOU-A15L

Welding Male (3A-15L)

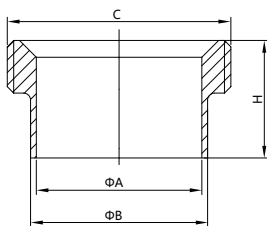
Size	A	B	H	H
1.0"	22.1	25.4	37.13×8TPI ACME	34.9
1.5"	34.8	38.1	50.65×8TPI ACME	38.1
2.0"	47.5	50.8	64.16×8TPI ACME	38.1
2.5"	60.2	63.5	77.67×8TPI ACME	44.5
3.0"	72.9	76.2	91.19×8TPI ACME	44.5
4.0"	97.38	101.6	119.25×6TPI ACME	44.5



JOU-A14R

Expanding Liner (3A-14R)

Size	A	B	H	H
1.0"	25.5	29.5	33.3	19.1
1.5"	38.2	42.6	46.9	28.6
2.0"	50.9	55.7	60.5	33.3
2.5"	63.6	68.8	74	34.9
3.0"	76.3	81.9	87.5	36.5
4.0"	101.7	108.1	114.5	38.1

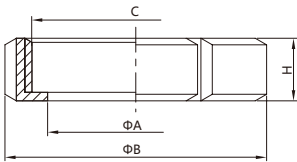


JOU-A15R

Expanding Male (3A-15R)

Size	A	B	C	H
1.0"	25.5	29.5	37.13×8TPI ACME	20.6
1.5"	38.2	42.6	50.65×8TPI ACME	28.6
2.0"	50.9	55.7	64.16×8TPI ACME	34.9
2.5"	63.6	68.8	77.67×8TPI ACME	38.1
3.0"	76.3	81.9	91.19×8TPI ACME	41.3
4.0"	101.7	108.1	119.25×6TPI ACME	41.3

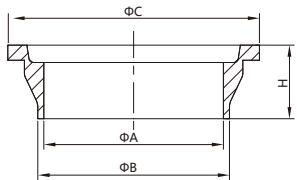
RJT / CIP



JOU-RJTHRN

Round Nut (RJT-13R)

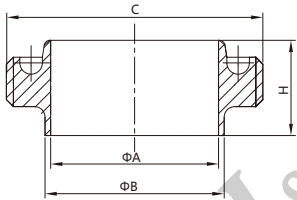
Size	A	B	C	H
1.0"	33.3	58.5	42.266×8TPI WHIT	22.2
1.5"	46	74	54.966×8TPI WHIT	22.2
2.0"	58.7	85.5	67.920×6TPI WHIT	22.2
2.5"	71.4	98.5	80.620×6TPI WHIT	22.2
3.0"	84.1	111.6	93.320×6TPI WHIT	22.2
4.0"	109.5	138	118.720×6TPI WHIT	22.2



JOU-RJTHL

Welding Liner (RJT-14)

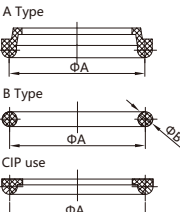
Size	A	B	C	H
1.0"	22.2	25.4	41.3	19.5
1.5"	34.9	38.1	54	19.5
2.0"	47.6	50.8	66.7	19.5
2.5"	60.3	63.5	79.4	19.5
3.0"	73.0	76.2	92.1	19.5
4.0"	97.6	101.6	117.5	19.5



JOU-RJTHM

Welding Male (RJT-15)

Size	A	B	C	H
1.0"	22.2	25.4	45.72×8TPI WHIT	27
1.5"	34.9	38.1	58.42×8TPI WHIT	27
2.0"	47.6	50.8	72.72×6TPI WHIT	27
2.5"	60.3	63.5	85.42×6TPI WHIT	27
3.0"	73	76.2	98.12×6TPI WHIT	27
4.0"	97.6	101.6	123.52×6TPI WHIT	27

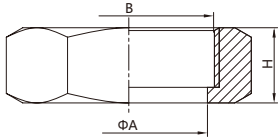


JOU-RJTHG

Seal Ring

Size	A	B
1.0"	33.3	6.4
1.5"	46	6.4
2.0"	58.7	6.4
2.5"	71.4	6.4
3.0"	84.1	6.4
4.0"	109.5	6.4

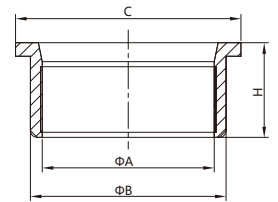
RJT / CIP



JOU-RJTHHN

Hexagonal Nut (RJT-13H)

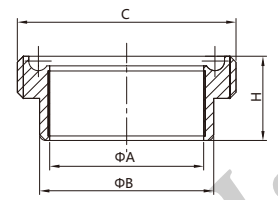
Size	A	B	H	SW
1.0"	33.3	42.266×8TPI WHIT	22.2	50.8
1.5"	46	54.966×8TPI WHIT	22.2	65
2.0"	58.7	67.920×6TPI WHIT	22.2	79.4
2.5"	71.4	80.620×6TPI WHIT	22.2	92.1
3.0"	84.1	93.320×6TPI WHIT	22.2	104.8
4.0"	109.5	118.720×6TPI WHIT	22.2	130.2



JOU-RJTHEL

Expanding Liner (RJT-14R)

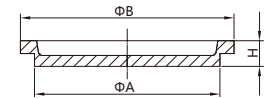
Size	A	B	C	H
1.0"	25.7	32.5	41.3	20
1.5"	38.4	45.2	54	24
2.0"	51.2	57.9	66.7	28
2.5"	63.9	70.6	79.4	32
3.0"	76.6	83.3	92.1	32
4.0"	102	108.7	117.5	32



JOU-RJTHER

Expanding Male (RJT-15R)

Size	A	B	C	H
1.0"	25.7	32.5	45.72×8TPI WHIT	27
1.5"	38.4	45.2	58.42×8TPI WHIT	27
2.0"	51.2	57.9	72.72×6TPI WHIT	27
2.5"	63.9	70.6	85.42×6TPI WHIT	27
3.0"	76.6	83.3	98.12×6TPI WHIT	27
4.0"	102	108.7	123.52×6TPI WHIT	27

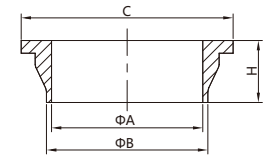


JOU-RJTHBL

Blank Liner (RJT-14B)

Size	A	B	H
1.0"	32.5	41.3	8
1.5"	45.2	54	8
2.0"	57.9	66.7	8
2.5"	70.6	79.4	8
3.0"	83.3	92.1	8
4.0"	108.7	117.5	8

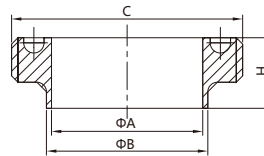
RJT / CIP



JOU-CIPHL

Flat Welding Liner (CIP-14)

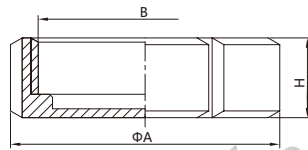
Size	A	B	C	H
1.0"	22.2	25.4	41.3	19
1.5"	34.9	38.1	54	19
2.0"	47.6	50.8	66.7	19
2.5"	60.3	63.5	79.4	19
3.0"	73.0	76.2	92.1	19
4.0"	97.6	101.6	117.5	19



JOU-CIPHM

Flat Welding Male (CIP-15)

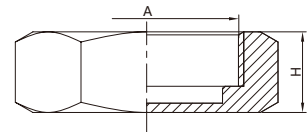
Size	A	B	C	H
1.0"	22.2	25.4	45.72×8TPI WHIT	22
1.5"	34.9	38.1	58.42×8TPI WHIT	22
2.0"	47.6	50.8	72.72×6TPI WHIT	22
2.5"	60.3	63.5	85.42×6TPI WHIT	22
3.0"	73.0	76.2	98.12×6TPI WHIT	22
4.0"	97.6	101.6	123.52×6TPI WHIT	22



JOU-RJT13RB

Round Blank Nut (RJT-13RB)

Size	A	B	H
1.0"	58.5	42.266×8TPI WHIT	22.2
1.5"	74	54.966×8TPI WHIT	22.2
2.0"	85.5	67.920×6TPI WHIT	22.2
2.5"	98.5	80.620×6TPI WHIT	22.2
3.0"	111.6	93.320×6TPI WHIT	22.2
4.0"	138	118.720×6TPI WHIT	22.2

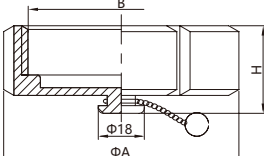


JOU-RJT13HB

Hexagonal Blank Nut (RJT-13HB)

Size	A	H	SW
1.0"	42.266×8TPI WHIT	22.2	50.8
1.5"	54.966×8TPI WHIT	22.2	65
2.0"	67.920×6TPI WHIT	22.2	79.4
2.5"	80.620×6TPI WHIT	22.2	92.1
3.0"	93.320×6TPI WHIT	22.2	104.8
4.0"	118.720×6TPI WHIT	22.2	130.2

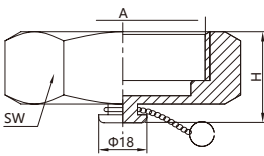
RJT/CIP



JOU-R13RBN

Blank Nut With Boss (RJT-13RBN)

Size	A	B	H
1.0"	58.5	42.266×8TPI WHIT	29.2
1.5"	74	54.966×8TPI WHIT	29.2
2.0"	85.5	67.920×6TPI WHIT	29.2
2.5"	98.5	80.620×6TPI WHIT	29.2
3.0"	111.6	93.320×6TPI WHIT	29.2
4.0"	138	118.720×6TPI WHIT	29.2

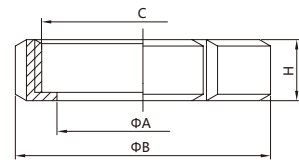


JOU-R13HBN

Hexagonal Blank Nut With Boss (RJT-13HBN)

Size	A	B	H	SW
1.0"	42.266×8TPI WHIT	48.3	29.2	50.8
1.5"	54.966×8TPI WHIT	53.3	29.2	65
2.0"	67.920×6TPI WHIT	63.3	29.2	79.4
2.5"	80.620×6TPI WHIT	73.3	29.2	92.1
3.0"	93.320×6TPI WHIT	83.3	29.2	104.8
4.0"	118.720×6TPI WHIT	104.2	29.2	130.2

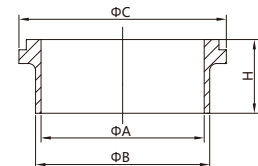
IDF



JOU-IDF13R

Nut (IDF-13R)

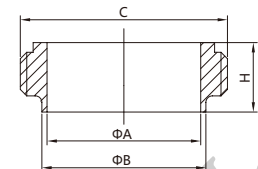
Size	A	B	C	SW
1.0"	30.5	48	34.34×8TPI ACME	30
1.5"	43.5	64	47.86×8TPI ACME	30
2.0"	57.0	77	61.37×8TPI ACME	30
2.5"	70.7	91	74.88×8TPI ACME	30
3.0"	83.3	106	88.40×8TPI ACME	30
4.0"	112	142	122.05×6TPI ACME	35



JOU-IDF14

Welding Liner (IDF-14)

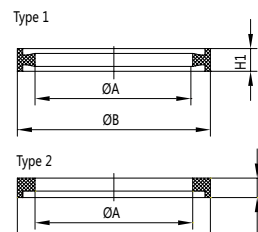
Size	A	B	C	H
1.0"	22.2	25.4	33.8	21.5
1.5"	34.9	38.1	47	21.5
2.0"	47.6	50.8	60.5	21.5
2.5"	60.3	63.5	74	21.5
3.0"	73.0	76.2	87.5	21.5
4.0"	97.6	101.6	120.6	30



JOU-IDF15

Welding Male (IDF-15)

Size	A	B	C	H
1.0"	22.2	25.4	37.13×8TPI ACME	21.5
1.5"	34.9	38.1	50.65×8TPI ACME	21.5
2.0"	47.6	50.8	64.16×8TPI ACME	21.5
2.5"	60.3	63.5	77.67×8TPI ACME	21.5
3.0"	73.0	76.2	91.19×8TPI ACME	21.5
4.0"	97.6	101.6	125.9×6TPI ACME	30

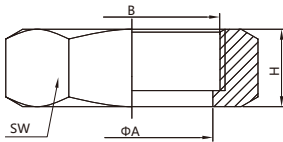


JOU-IDFHG

Seal Ring

Size	A	B	C	H1	H
1"	23.2	32.5	32.2	7	6
1.5"	35.9	46	45.7	7	6
2"	48.6	59.5	59.2	7	6
2.5"	61.3	73.2	72.9	7	6
3"	74	86.5	85.6	7	6
4"	98.6	119	118	9.6	6

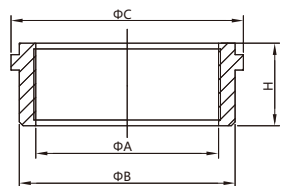
IDF



JOU-IDF13H

Hexagonal Nut (IDF-13H)

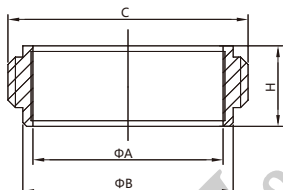
Size	A	B	H	SW
1.0"	30.5	34.34×8TPI ACME	30	46
1.5"	43.5	47.86×8TPI ACME	30	60
2.0"	57.0	61.37×8TPI ACME	30	75
2.5"	70.7	74.88×8TPI ACME	30	90
3.0"	83.3	88.40×8TPI ACME	30	105
4.0"	112	122.05×6TPI ACME	35	133



JOU-IDF14R

Expanding Liner (IDF-14R)

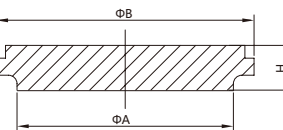
Size	A	B	C	H
1.0"	25.7	29	33.8	20
1.5"	38.4	42.5	47	20
2.0"	51.2	56	60.5	20
2.5"	63.9	69.7	74	25
3.0"	76.6	82.3	87.5	30
4.0"	102	111.1	120.6	30



JOU-IDF15R

Expanding Male (IDF-15R)

Size	A	B	C	H
1.0"	25.7	29	37.13×8TPI ACME	21.5
1.5"	38.4	42.5	50.65×8TPI ACME	21.5
2.0"	51.2	56	64.16×8TPI ACME	21.5
2.5"	63.9	69.7	77.67×8TPI ACME	21.5
3.0"	76.6	82.3	91.19×8TPI ACME	21.5
4.0"	102	111.1	125.9×6TPI ACME	30

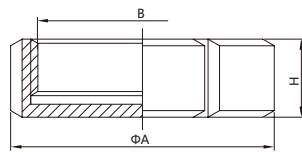


JOU-IDF14B

Blank Liner (IDF-14B)

Size	A	B	H
1.0"	29	33.8	10.5
1.5"	42.5	47	10.5
2.0"	56	60.5	10.5
2.5"	69.7	74	10.5
3.0"	82.3	87.5	10.5
4.0"	111.1	120.6	10.5

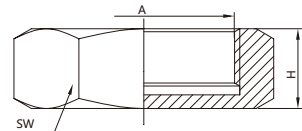
IDF



JOU-IDF13RB

Blank Nut (IDF-13RB)

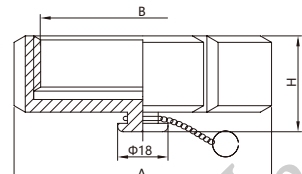
Size	A	B	H
1.0"	48	34.34×8TPI ACME	30
1.5"	64	47.86×8TPI ACME	30
2.0"	77	61.37×8TPI ACME	30
2.5"	91	74.88×8TPI ACME	30
3.0"	106	88.40×8TPI ACME	30
4.0"	142	122.05×6TPI ACME	35



JOU-IDF13HB

Hexagonal Blank Nut (IDF-13HB)

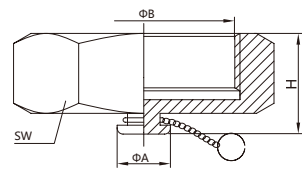
Size	A	B	SW
1.0"	34.34×8TPI ACME	30	46
1.5"	47.86×8TPI ACME	30	60
2.0"	61.37×8TPI ACME	30	75
2.5"	74.88×8TPI ACME	30	90
3.0"	88.40×8TPI ACME	30	105
4.0"	122.05×6TPI ACME	35	133



JOU-IDF13RBN

Blank Nut With Boss (IDF-13RBN)

Size	A	B	H
1.0"	48	34.34×8TPI ACME	37
1.5"	64	47.86×8TPI ACME	37
2.0"	77	61.37×8TPI ACME	37
2.5"	91	74.88×8TPI ACME	37
3.0"	106	88.40×8TPI ACME	37
4.0"	142	122.05×6TPI ACME	42

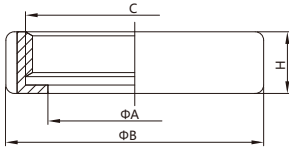


JOU-IDF14HBN

Hexagonal Blank Nut With Boss (IDF-13HBN)

Size	A	B	H
1.0"	34.34×8TPI ACME	37	46
1.5"	47.86×8TPI ACME	37	60
2.0"	61.37×8TPI ACME	37	75
2.5"	74.88×8TPI ACME	37	90
3.0"	88.40×8TPI ACME	37	105
4.0"	122.05×6TPI ACME	42	133

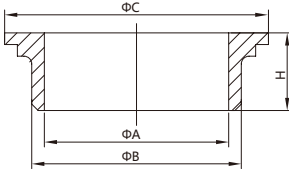
DS



JOU-DS13

Nut (DS-13)

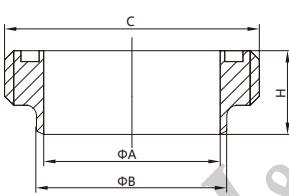
Size	A	B	C	H
1"	35	57	Rd44×1/6"	20
1-1/4"	42	65	Rd52×1/6"	20
1-1/2"	48	71	Rd58×1/6"	20
2"	62	88	Rd72×1/6"	22
2-1/2"	76	103	Rd88×1/6"	24
3"	88	115	Rd100×1/6"	25
4"	116	148	Rd130×1/4"	31



JOU-DS14

Welding Liner (DS-14)

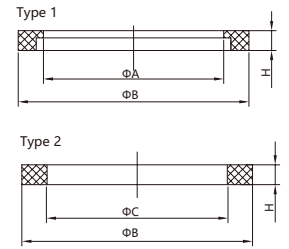
Size	A	B	C	H
1"	22.4	28.5	40	16
1-1/4"	28.75	35	48	16
1-1/2"	35.1	41.4	54	18
2"	47.8	54	68	20
2-1/2"	60.5	66.5	84	22
3"	72.2	79.5	96	24
4"	97.6	105	124.6	29



JOU-DS15

Welding Male (DS-15)

Size	A	B	C	H
1"	22.4	28.5	Rd44×1/6"	20
1-1/4"	28.75	35	Rd52×1/6"	20
1-1/2"	35.1	41.4	Rd58×1/6"	22
2"	47.8	54	Rd72×1/6"	24
2-1/2"	60.5	66.5	Rd88×1/6"	26
3"	72.2	79.5	Rd100×1/6"	28
4"	97.6	105	Rd130×1/4"	34

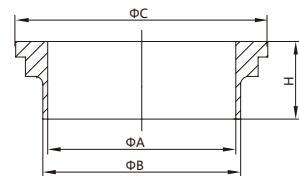


JOU-DSHG

Seal Ring

Size	A	B	C	H
1"	22.6	31.8	25.5	5
1-1/4"	29	40.8	31.8	5
1-1/2"	35.3	46.8	38.2	5
2"	48.0	58.8	50.9	5
2-1/2"	60.7	74.3	60.6	5
3"	72.4	87.8	76.3	5
4"	97.8	115.8	101.7	5

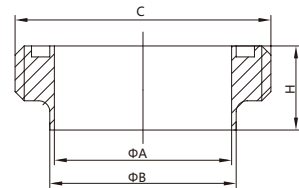
DS



JOU-DS14H

Welding Liner (DS-14H)

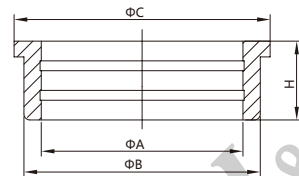
Size	A	B	C	H
1"	22.4	25.4	40	16
1-1/4"	28.75	31.75	48	16
1-1/2"	35.1	38.1	54	18
2"	47.8	50.8	68	20
2-1/2"	60.5	63.5	84	22
3"	72.2	76.2	96	24
4"	97.6	101.6	124.6	29



JOU-DS15H

Welding Male (DS-15H)

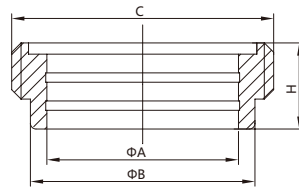
Size	A	B	C	H
1"	22.4	25.4	Rd44×1/6"	20
1-1/4"	28.75	31.75	Rd52×1/6"	20
1-1/2"	35.1	38.1	Rd58×1/6"	22
2"	47.8	50.8	Rd72×1/6"	24
2-1/2"	60.2	63.5	Rd88×1/6"	26
3"	72.2	76.2	Rd100×1/6"	28
4"	97.6	101.6	Rd130×1/4"	34



JOU-DS14R

Expanding Liner (DS-14R)

Size	A	B	C	H
1"	25.5	34.5	40	16
1-1/4"	31.9	41.5	48	16
1-1/2"	38.2	47.5	54	18
2"	50.9	61.5	68	20
2-1/2"	63.6	75.5	84	22
3"	76.3	87.5	96	24
4"	101.7	115.5	124.6	29

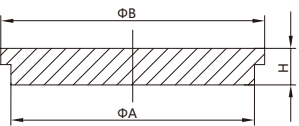


JOU-DS15R

Expanding Male (DS-15R)

Size	A	B	C	H
1"	25.5	34.5	Rd44×1/6"	20
1-1/4"	31.9	41.5	Rd52×1/6"	20
1-1/2"	38.2	47.5	Rd58×1/6"	22
2"	50.9	61.5	Rd72×1/6"	24
2-1/2"	63.6	75.5	Rd88×1/6"	26
3"	76.3	87.5	Rd100×1/6"	28
4"	101.7	115.5	Rd130×1/4"	34

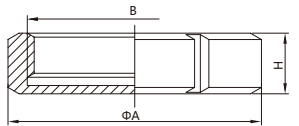
DS



JOU-DS14B

Blank Liner (DS-14B)

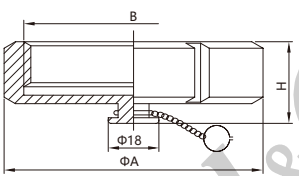
Size	A	B	H
1"	34.5	40.5	6
1-1/4"	41.5	48	6
1-1/2"	47.5	54	6
2"	61.5	68	6
2-1/2"	75.5	84	8
3"	87.5	96	8
4"	115	124.6	9



JOU-DS13RB

Blank Nut (DS-13RB)

Size	A	B	H
1"	57	Rd44×1/6"	20
1-1/4"	65	Rd52×1/6"	20
1-1/2"	71	Rd58×1/6"	20
2"	88	Rd72×1/6"	22
2-1/2"	103	Rd88×1/6"	24
3"	115	Rd100×1/6"	25
4"	148	Rd130×1/4"	31

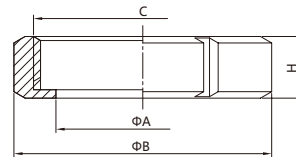


JOU-DS13RBN

Blank Nut With Boss (DS-13RBN)

Size	A	B	H
1"	57	Rd44×1/6"	27
1-1/4"	65	Rd52×1/6"	27
1-1/2"	71	Rd58×1/6"	27
2"	88	Rd72×1/6"	27
2-1/2"	103	Rd88×1/6"	31
3"	115	Rd100×1/6"	32
4"	148	Rd130×1/4"	38

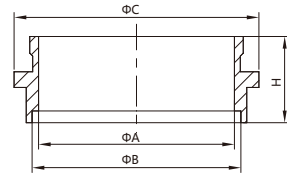
• Memorandum



JOU-MA13

Nut (MACON-13)

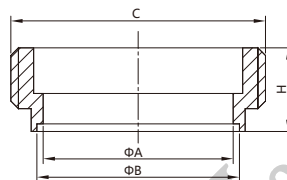
Size	A	B	C	H
40	37	70	M55×P3.0	24
50	57	80	M67×P3.0	24
60	67	95	M79×P3.5	24
70	77	106	M90×P3.5	24
80	90	118	M102×P4.0	25
100	112	139	M125×P4.0	25



JOU-MA14

Welding Liner (MACON-14)

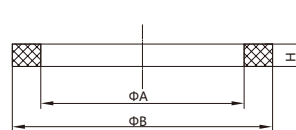
Size	A	B	C	H
40	40	43.3	50	22
50	50	53.3	62.5	22
60	60	63.3	73.5	22
70	70	73.3	85	22
80	80	83.3	96	22
100	100	104.2	119	22



JOU-MA15

Welding Male (MACON-15)

Size	A	B	C	H
40	40	43.3	M55×P3.0	22
50	50	53.3	M67×P3.0	22
60	60	63.3	M79×P3.5	22
70	70	73.3	M90×P3.5	22
80	80	83.3	M102×P4.0	22
100	100	104.2	M125×P4.0	22



JOU-MAG

Seal Ring

Size	A	B	H
40	43	49	4
50	53	61.5	4
60	63	72.5	4
70	73	84	4
80	83	95	4
100	103	118	4

