The selection is detailed on page 6

BX35
Instrument Adapter

Product application

For the installation of pressure measuring instruments, pressure gauge plug valves, globe valves, condensing pipes, damping valves and other accessories.

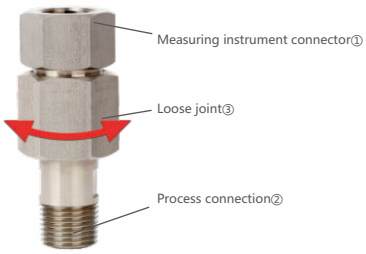
Functional characteristics

First, attach the adapter with process connection ② to the pipe (note that this is sealed)

Then, fasten the pressure measuring instrument to the measuring instrument end of the adapter

Turn the pressure gauge to a convenient reading position

Finally, pull the loose joint ③ to tighten the entire system. Tighten gauge in desired reading position



Product description

Adapter with external thread
The size of the pressure faucet provides adaptation, different from the size of the gauge thread.

Adapter with internal thread adapter
The connection of two external threads of the same or different sizes is provided.

External thread/external thread adapter
The connection of two internal threads of the same or different sizes is provided.

Self-sealing Joint (SS)
The threaded joint is self-sealing in such a way that the cone in the threaded joint is driven into the hole in the pressure channel interface in the pressure measuring instrument. To prevent accidental opening of the two threaded fittings, a special adhesive is used to secure the two threaded fittings together.

LH-RH Live connector
In accordance with DIN 16283. One end of the joint is left-handed thread and the other end is right-handed thread. This function is designed to provide a reliable seal when the gauge can be oriented in any direction. This principle does not allow the use of conical threads, such as NPT.

Nuts with joint
In accordance with DIN16284. They are designed to provide a reliable seal while the gauge can be oriented in any direction. This principle does not allow the use of conical threads, such as NPT. Compression fittings with ferrules (no casing connector) for attaching pressure gauges to thin-walled high pressure tubes in copper, steel or stainless steel.

Flange with lens type seal
This is a DIN high voltage connector with lenticular metal-to-metal sealing rings for up to 4000 bar. Pressure gauges require a special shape of G¾.

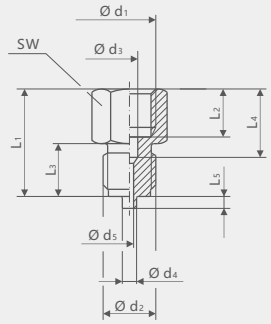
Welding adapter
With external thread, left hand thread for LH/RH joint, right hand thread (according to EN837-1) for direct access to pressure port.

Technical parameter

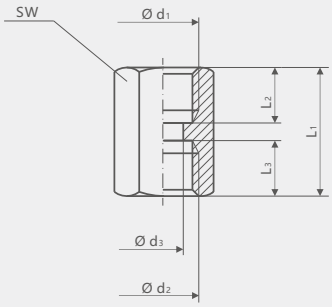
Dimensions and process connections	See table
material	Brass, stainless steel 1.4571
option	Brass, chrome plated
	Special thread

Size mm

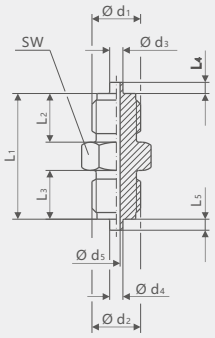
Outside-inside thread



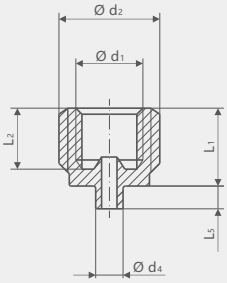
Internal - internal thread



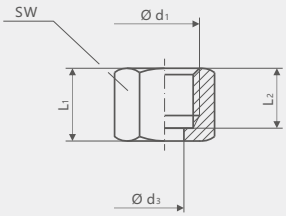
External - external thread



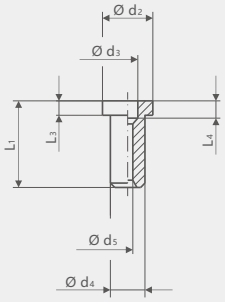
SS Threaded joint



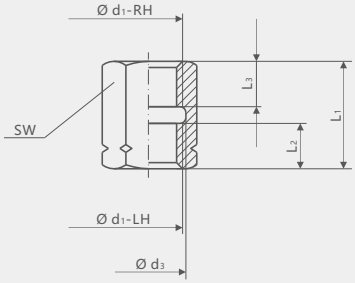
Union (internal thread)



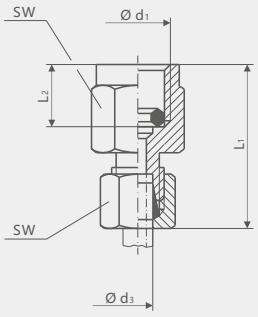
Threaded joint



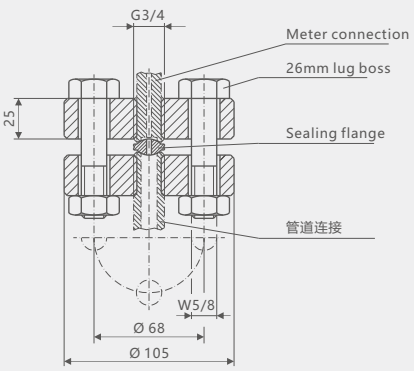
Left - right turn loose joint



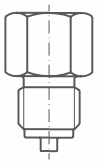
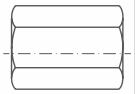
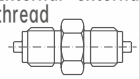
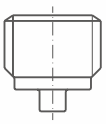
Pressure gauge adapter with metal hoop



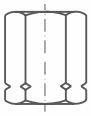
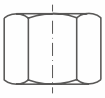
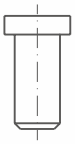
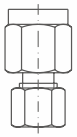
Flange with lens seal



Size mm

Design	Connect[1]		Size mm									Material
	d_1	d_2	d_3	d_4	d_5	L_1[2]	L_2[2]	L_3[2]	L_4[2]	L_5[2]	lug boss	
External-internal thread 	G1/8	G1/4B	4.5	5	3	28	10	13	13	2	14	Orichalcum
	G1/8	G1/2B	4.5	6	3	32	10	20	13	3	22	Orichalcum
	G1/4	G1/8B	5.5	-	3	29	13	10	16.5	-	17	Orichalcum
	G1/4	G3/8B	5.5	5.5	3	33	13	16	16.5	3	19	Orichalcum
	G1/4	G1/2B	5.5	6	3	38	13	20	16.5	3	22	Orichalcum
	G1/4	G1/2B	5.5	6	3.5	38	13	20	16.5	3	22	1.4571
	G1/4	1/4NPT	5.5	-	3	30	13	13	16.5	-	17	Orichalcum
	G1/4	M10×1	5.5	-	3	29	13	10	16.5	-	17	Orichalcum
	G1/4	M12×1.5	5.5	5	3	32	13	13	16.5	2	17	Orichalcum
	G3/8	G1/4B	7	5	3	36	16	13	19.5	2	22	Orichalcum
	G3/8	G1/2B	7	6	3	43	16	20	19.5	3	22	Orichalcum
	G1/2	G1/4B	7	5	3	41	19	13	24.5	2	27	Orichalcum
	G1/2	G1/4B	7	5	3.5	41	19	13	24.5	2	27	steel
	G1/2	1/4NPT	7	-	3	43	19	13	24.5	-	27	Orichalcum
	G1/2	1/4NPT	7	-	3.5	43	19	13	24.5	-	27	1.4571
	G1/2	G3/8B	7	5.5	3	45	19	16	24.5	3	27	Orichalcum
	G1/2	G3/8B	7	5.5	3.5	45	19	16	24.5	3	27	1.4571
	G1/2	G1/2B	7	6	3.5	46	19	20	24.5	3	27	1.4571
	G1/2	1/2NPT	7	-	3.5	44	19	19	24.5	-	27	1.4571
	G1/2	1/2NPT	7	-	3	44	19	19	24.5	-	27	Orichalcum
	G1/2	G3/4B	7	6	3	45	19	20	24.5	5	27	Orichalcum
	G1/2	M12×1.5	7	5	3	41	19	13	24.5	2	27	Orichalcum
	G1/2	M20×1.5	7	6	3.5	46	19	20	24.5	3	27	1.4571
	G1/2	M20×1.5	7	6	3	46	19	20	24.5	3	27	Orichalcum
	M12×1.5	G1/8B	5.5	-	3	29	13	10	16.5	-	17	Orichalcum
	M12×1.5	G1/4B	5.5	5	3	32	13	13	16.5	2	17	Orichalcum
	M12×1.5	G3/8B	5.5	5.5	3	33	13	16	16.5	3	19	Orichalcum
	M20×1.5	G1/2B	7	6	3	46	19	20	24.5	3	27	Orichalcum
Internal - internal thread 	G1/8	G1/8	4.5	-	-	22	10	10	-	-	14	Orichalcum
	G1/4	G1/8	5.5	-	-	26	13	10	-	-	17	Orichalcum
	G1/4	G1/4	5.5	-	-	30	13	13	-	-	17	Orichalcum
	G1/2	G1/4	7	-	-	36	19	13	-	-	27	1.4571
	G1/2	G1/2	7	-	-	43	19	19	-	-	27	1.4571
	G1/2	G1/2	7	-	-	43	19	19	-	-	27	Orichalcum
	G1/2	M20×1.5	7	-	-	43	19	19	-	-	27	Orichalcum
	G1/2	M20×1.5	7	-	-	43	19	19	-	-	27	steel
	G1/2	M20×1.5	7	-	-	43	19	19	-	-	27	1.4571
External - external thread 	G1/4B	G1/4B	5	5	3	34	13	13	2	2	14	Orichalcum
	G1/2B	G1/2B	6	6	3	50	20	20	3	3	22	Orichalcum
	G1/2B	G1/2B	6	6	3.5	50	20	20	3	3	22	1.4571
	G1/2B	1/2NPT	6	-	3.5	49	20	-	3	-	22	1.4571
SS Threaded joint 	G1/8	G1/4B	-	5	-	14.5	11	-	-	2	-	Orichalcum
	G1/8	1/4NPT	-	-	-	13.5	11	-	-	-	-	Orichalcum
	G1/4	3/8NPT	-	-	-	19	15.5	-	-	-	-	Orichalcum
	G1/4	3/8NPT	-	-	-	19	15.5	-	-	-	-	1.4571
	G1/4	G3/8B	-	5.5	-	19	15.5	-	-	3	-	1.4571
	G1/4	G3/8B	-	5.5	-	19	15.5	-	-	3	-	Orichalcum
	G1/4	G1/2B	-	6	-	19	15.5	-	-	3	-	Orichalcum
	G1/4	G1/2B	-	6	-	19	15.5	-	-	3	-	1.4571
	G1/4	1/2NPT	-	-	-	19	15.5	-	-	-	-	Orichalcum
	G1/4	1/2NPT	-	-	-	19	15.5	-	-	-	-	1.4571
	G1/4	M20×1.5	-	6	-	19	15.5	-	-	3	-	Orichalcum

Size mm

Design	Join[1]		Size mm									Materials
	d_1	d_2	d_3	d_4	d_5	L_1[2]	L_2[2]	L_3[2]	L_4[2]	L_5[2]	boss	
Left - right turn loose joint Conform to Standard DIN 16283 	G1/2-RH	G1/2-LH	21.5	-	-	36	15.5	15.5	-	-	27	Orichalcum
	G1/2-RH	G1/2-LH	21.5	-	-	36	15.5	15.5	-	-	27	steel
	G1/2-RH	G1/2-LH	21.5	-	-	36	15.5	15.5	-	-	27	1.4571
	G1/2-RH	M20×1.5-LH	21.5	-	-	36	15.5	15.5	-	-	27	Orichalcum
	G1/2-RH	M20×1.5-LH	21.5	-	-	36	15.5	15.5	-	-	27	steel
	M20×1.5-RH	M20×1.5-LH	20.5	-	-	36	15.5	15.5	-	-	27	Orichalcum
The loose nut fits Standard DIN 16284 	G1/4	PN250	6.5	-	-	22	17	-	-	-	17	Orichalcum
	G1/4	PN400	6.5	-	-	22	17	-	-	-	17	steel
	G1/2	PN250	12.5	-	-	30	24	-	-	-	27	Orichalcum
	G1/2	PN400	12.5	-	-	30	24	-	-	-	27	steel
	G1/2	PN400	12.5	-	-	30	24	-	-	-	27	1.4571
	M12×1.5	PN250	6.5	-	-	22	17	-	-	-	17	Orichalcum
	M20×1.5	PN250	12.5	-	-	30	24	-	-	-	27	Orichalcum
Thread fitting Standard DIN 16284 	For G1/4 / M12×1.5	9.5	5.5	6	2.5	30	-	6	4	-	-	Brass[3]
	For G1/4 / M12×1.5	9.5	5.5	6	2.5	30	-	6	4	-	-	Steel[3]
	For G1/2 / M20×1.5	17.5	7	12	3.5	30	-	6	6	-	-	Brass[3]
	For G1/2 / M20×1.5	17.5	7	12	3.5	30	-	6	6	-	-	Steel[3]
	For G1/2 / M20 ×1.5	17.5	7	12	3.5	30	-	6	6	-	-	1.4571
Pressure with metal hoop Table adapter[2] 	G1/4	PN 100	4	-	-	33	14.5	-	-	-	19/10	steel
	G1/4	PN 250	6	-	-	37	14.5	-	-	-	19/14	steel
	G1/2	PN 600	6	-	-	46	20	-	-	-	27/17	steel
	G1/2	PN 600	6	-	-	46	20	-	-	-	27/17	1.4571
	G1/2	PN 600	8	-	-	46	20	-	-	-	27/19	steel
	G1/2	PN 600	8	-	-	46	20	-	-	-	27/19	1.4571
	G1/2	PN 600	10	-	-	47	20	-	-	-	27/22	steel
	G1/2	PN 600	10	-	-	47	20	-	-	-	27/22	1.4571
	G1/2	PN 600	12	-	-	47	20	-	-	-	27/24	steel
	G1/2	PN 600	12	-	-	47	20	-	-	-	27/24	1.4571
flange 	G3/4	≤400 MPa	See figure for dimensions									steel

1) The connection conforms to EN 837-1 standard (except G3/4 B).

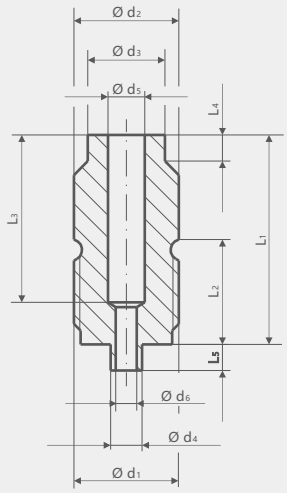
2) With metal hoop, PN 250 or above and involving service pressure, the service pressure shall be reduced accordingly for the following temperatures: at 100 ℃ = 11 % at 200 ℃ = 20 % at 300 ℃ = 29 % at 400 ℃ = 33 %

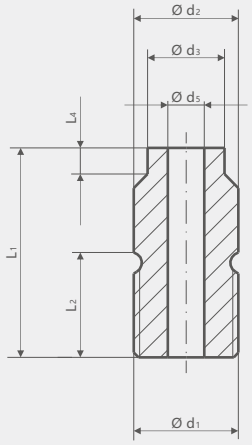
3) Brass = Cu Zn 39 Pb 3 (2.0401) ST = 9 s Mn Pb 28 (1.0718)

4) Approximate size

Size mm

Welded joint





Standard	d_1	d_2	d_3	d_4	d_5	d_6	L_1	L_2	L_3	L_4	L_5
		SW				Max					
EN 837-1	G1/2B	20	14.7	6	7	4	40	20	32	5	5
	M20×1.5[2)]	20	14.7	6	7	4	40	20	32	5	5
	1/2NPT	20	14.7	6	7	4	40	20	32	5	5
DIN 16282	G1/2B-LH	20	14.7	-	7	-	40	20	-	5	5
	M20×1.5-LH[2)]	20	14.7	-	7	-	40	20	-	5	5

1) Similar to form 4 that conforms to DIN16282 above

2) For the ISO metric standard, the thread will be according to DIN 16288:1987 standard. These threads will not be standard in EN837 and DIN16282

BX35-Selection composition

Selection example **BX35 H / U / V**
1 2 3

1.Meter connection specification	A	1 NPT	
	B	1/2NPT	
	C	1/4NPT	
	D	M14*1.5	
	E	M20*1.5	
	F	M27*2	
	G	G 1	
	H	G1/2	
	I	G1/4	
	T( )	Other connection specifications	
2.Field connection specification	N	1 NPT	
	O	1/2NPT	
	P	1/4NPT	
	Q	M14*1.5	
	R	M20*1.5	
	S	M27*2	
	T	G 1	
	U	G1/2	
	V	G1/4	
	T( )	Other connection specifications	
3.Material	X		
	V	304SS	
	Z	316L	
	T( )	Other materials	

Instructions:

It indicates that the BX35 converter is connected to the instrument with the specification of G1/2, and the field connection specification is G1/2, and the material is 304 stainless steel.

Product Certification

Compliance and approval; Rodeweig pressure meets key standards and certifications for process measurement technology; Thus guaranteeing the highest reliability in such Settings;