

PS

COMPRESSION FITTINGS FOR TEMPERATURE SENSORS

The compression fittings are used to mount temperature sensors in the measurement position. The advantage is the possibility of adjusting the immersion during installation.



Overview of Compression Fittings (Table PS.1)

	Oval stainless steel ferrule	„C“ type stainless steel ferrule	Silon ferrule	PTFE ferrule	Notch ferrule
Sensor stem diameter	1,5 ... 8,0 mm	3,0 ... 6,0 mm	14 mm, 22 mm	1,0 ... 14,0 mm	1,0 ... 14,0 mm
Max. temperature	500 °C	500 °C	200 °C	200 °C	500 °C
Max. pressure	1 bar	-	1 bar	7 bar @100 °C 1 bar @200 °C	40 bar @100 °C 3 bar @500 °C
Robust design	YES	YES	NO	NO	YES
Repeatability of mounting	NO	YES	YES	NO	NO

Installation And Operating Instructions

The compression fitting is attached to the sensor stem and fixed in position by tightening the nut. The whole assembly is then screwed into the threaded weld-on piece.

Compression fittings with oval ferrule (Table PS.2)

	Item	Material
①	Nut	Stainless steel
②	Ferrule	Stainless steel
③	Fitting	Stainless steel

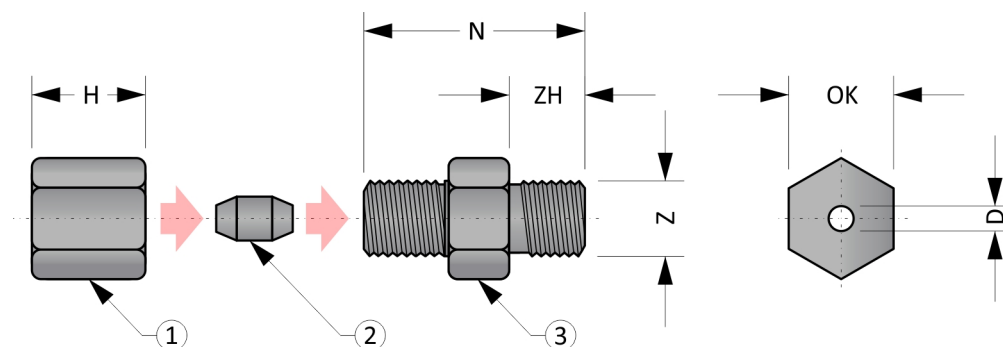


Figure PS.1: Compression fitting with oval ferrule

Optional Parameters Including the Creation of an Order Code (Table PS.3)

Thread Z	Thread length ZH	WAF OK	Length N	Length H	Nominal diameter D	Code
M8 x 1	8 mm	10 mm	24 mm	12 mm	1,5 mm	PS15-NN-8M1
					2,0 mm	PS2-NN-8M1
					3,0 mm	PS3-NN-8M1
M10 x 1	10 mm	14 mm	29 mm	15 mm	3,0 mm	PS3-NN-10M1
					4,5 mm	PS45-NN-10M1
					6,0 mm	PS6-NN-10M1
M12 x 1	10 mm	17 mm	28 mm	13 mm	8,0 mm	PS8-NN-12M1

Note:

Approximate weight of the product: PS3-NN-10M1 ... ~ 30 g

Compression fittings with C-type ferrule (Table PS.4)



	Item	Material
①	Nut	Stainless steel
②	Ferrule	Stainless steel
③	Fitting	Stainless steel

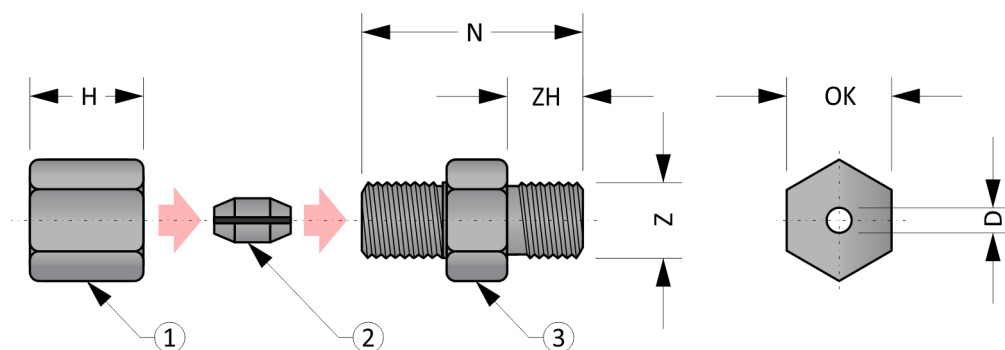


Figure PS.2: Compression fitting with C-type ferrule

Optional Parameters Including the Creation of an Order Code (Table PS.5)

Thread Z	Thread length ZH	WAF OK	Length N	Length H	Nominal diameter D	Code
M8 x 1	8 mm	14 mm	24 mm	15 mm	3,0 mm	PS3-NNC14-8M1
M10 x 1	10 mm	14 mm	24 mm	15 mm	3,0 mm	PS3-NNC-10M1
					4,5 mm	PS45-NNC-10M1
					6,0 mm	PS6-NNC-10M1

Note:

Approximate weight of the product: PS3-NNC-10M1 ... ~ 30 g

Compression fittings with silon ferrule (Table PS.6)



	Item	Material
①	Nut	Stainless steel
②	Ferrule	Silon
③	Fitting	Stainless steel
④	Washer	Steel

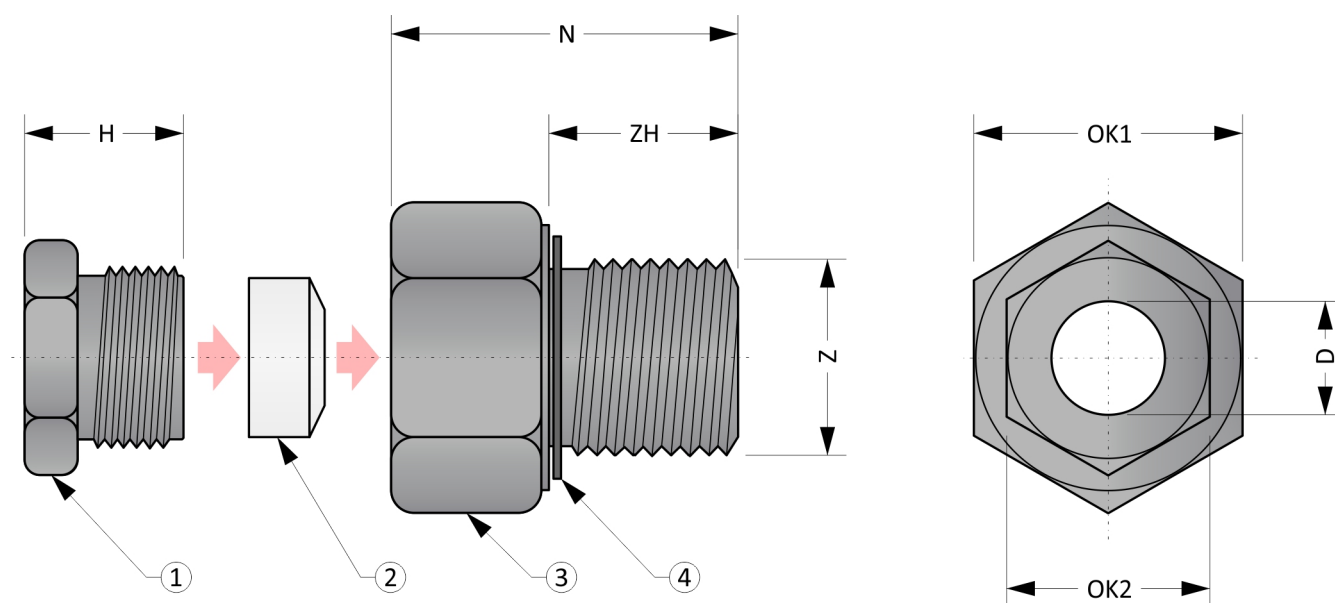


Figure PS.3: Compression fitting with silon ferrule

Optional Parameters Including the Creation of an Order Code (Table PS.7)

Thread Z	Thread length ZH	WAF OK1	Length N	Length H	WAF OK2	Nominal diameter D	Code
M27 x 2	24 mm	36 mm	46 mm	21 mm	27 mm	14,0 mm	PS14-NT-27M2
M33 x 2	30 mm	41 mm	81 mm	38 mm	36 mm	22,0 mm	PS22-NT-33M2

Note:

Approximate weight of the product: PS14-NT-27M2 ... ~ 230 g

Compression fittings with Teflon ferrule (Table PS.8)



	Item	Material
①	Nut	Stainless steel
②	Ferrule	Teflon PTFE
③	Fitting	Stainless steel

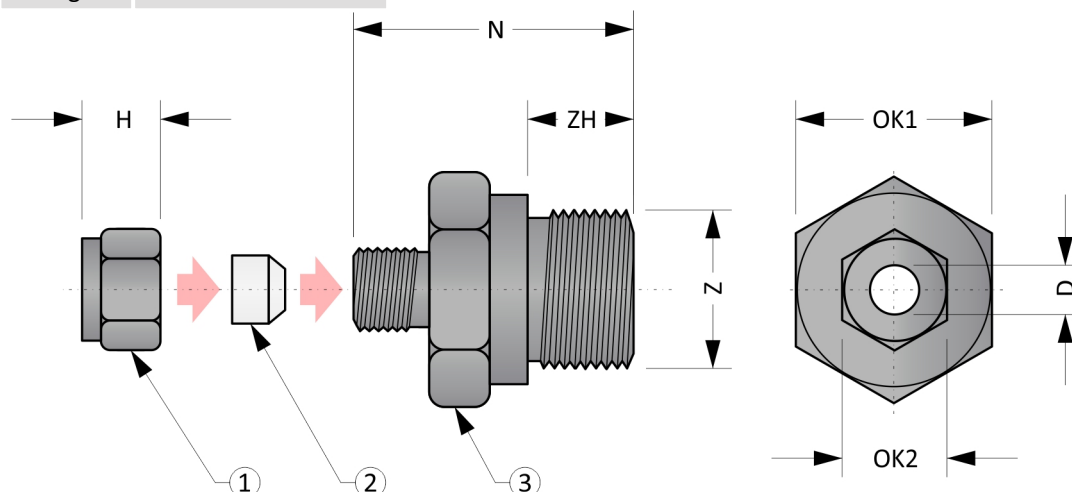


Figure PS.4: Compression fitting with Teflon ferrule

Optional Parameters Including the Creation of an Order Code (Table PS.9)

Thread Z	Thread length ZH	WAF OK1	Length N	Length H	WAF OK2	Nominal diameter D	Code
M8 x 1	7,5 mm	13,6 mm	22 mm	8 mm	7,9 mm	1,0 mm	PF10-NT-8M1
			21 mm	8 mm	7,9 mm	1,5 mm	PF15-NT-8M1
			25 mm	12 mm	11,2 mm	2,0 mm	PF20-NT-8M1
					12,7 mm	3,0 mm	PF30-NT-8M1
M20 x 1,5	11,2 mm	24,5 mm	32,7 mm	12,7 mm	14,2 mm	4,5 mm	PF45-NT-8M1
				13,5 mm	16,0 mm	6,0 mm	PF60-NT-20M15
				17,5 mm	22,2 mm	8,0 mm	PF80-NT-20M15
					25,4 mm	11,0 mm	PF11-NT-20M15
G¼"	11,2 mm	19,1 mm	28,6 mm	12 mm	11,1 mm	14,0 mm	PF14-NT-20M15
			29,5 mm	12 mm	12,7 mm	3,0 mm	PF30-NT-14G
			30,5 mm	12,7 mm	14,2 mm	4,5 mm	PF45-NT-14G
			31,2 mm	13,5 mm	15,8 mm	6,0 mm	PF60-NT-14G
G¾"	11,1 mm	22,2 mm	29,5 mm	12,0 mm	11,1 mm	8,0 mm	PF80-NT-14G
			30,4 mm	12,0 mm	12,7 mm	3,0 mm	PF30-NT-38G
			31,4 mm	12,7 mm	14,2 mm	4,5 mm	PF45-NT-38G
			32,1 mm	13,5 mm	15,8 mm	6,0 mm	PF60-NT-38G
						8,0 mm	PF80-NT-38G

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Thread Z	Thread length ZH	WAF OK1	Length N	Length H	WAF OK2	Nominal diameter D	Code
G½"	14,2 mm	27,0 mm	36,5 mm	12,0 mm	12,7 mm	4,5 mm	PF45-NT-12G
			37,5 mm	12,7 mm	14,2 mm	6,0 mm	PF60-NT-12G
			38,2 mm	13,5 mm	15,8 mm	8,0 mm	PF80-NT-12G
			39,5 mm	17,5 mm	22,2 mm	11,0 mm	PF11-NT-12G
			39,8 mm	17,5 mm	25,4 mm	14,0 mm	PF14-NT-12G
G¾"	16,0 mm	31,8 mm	41,5 mm	12,7 mm	14,2 mm	6,0 mm	PF60-NT-34G
			42,2 mm	13,5 mm	14,8 mm	8,0 mm	PF80-NT-34G

Note:

Approximate weight of the product: PF45-NT-12G ... ~ 100 g

Compression fittings with notch ferrule (Table PS.10)



	Item	Material
①	Nut	Stainless steel
②	Notch ferrule	Stainless steel
③	Fitting	Stainless steel

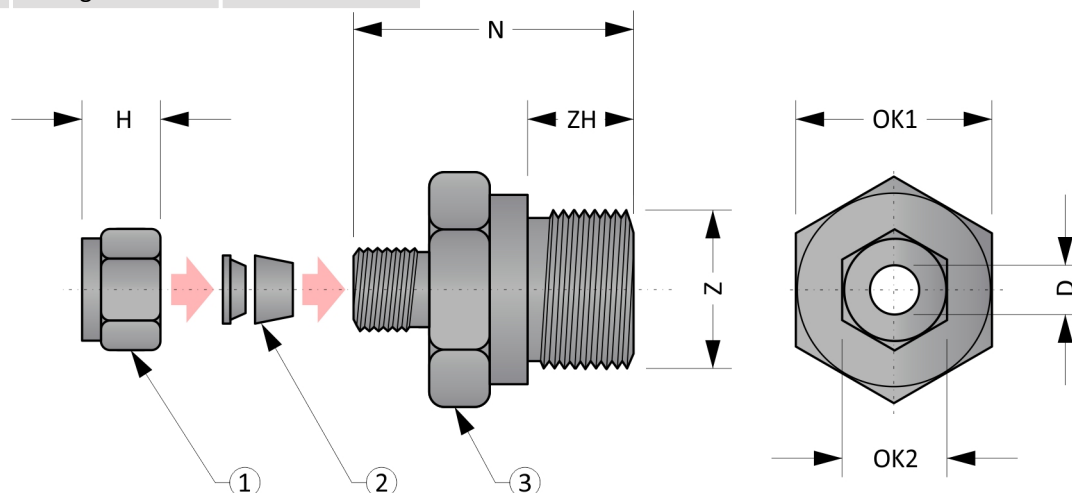


Figure PS.5: Compression fitting with notch ferrule

Optional Parameters Including the Creation of an Order Code (Table PS.11)

Thread Z	Thread length ZH	WAF OK1	Length N	Length H	WAF OK2	Nominal diameter D	Code
M8 x 1	7,5 mm	13,6 mm	22 mm	8 mm	7,9 mm	1,0 mm	PF10-NN-8M1
			21 mm	8 mm	7,9 mm	1,5 mm	PF15-NN-8M1
						2,0 mm	PF20-NN-8M1
						3,0 mm	PF30-NN-8M1
			25 mm	12 mm	11,2 mm	4,5 mm	PF45-NN-8M1
M20 x 1,5	11,2 mm	24,5 mm	32,7 mm	12,7 mm	14,2 mm	6,0 mm	PF60-NN-20M15
				13,5 mm	16,0 mm	8,0 mm	PF80-NN-20M15
				17,5 mm	22,2 mm	11,0 mm	PF11-NN-20M15
					25,4 mm	14,0 mm	PF14-NN-20M15
G $\frac{1}{4}$ "	11,2 mm	19,1 mm	28,6 mm	12 mm	11,1 mm	3,0 mm	PF30-NN-14G
			29,5 mm	12 mm	12,7 mm	4,5 mm	PF45-NN-14G
			30,5 mm	12,7 mm	14,2 mm	6,0 mm	PF60-NN-14G
			31,2 mm	13,5 mm	15,8 mm	8,0 mm	PF80-NN-14G
G $\frac{3}{8}$ "	11,1 mm	22,2 mm	29,5 mm	12,0 mm	11,1 mm	3,0 mm	PF30-NN-38G
			30,4 mm	12,0 mm	12,7 mm	4,5 mm	PF45-NN-38G
			31,4 mm	12,7 mm	14,2 mm	6,0 mm	PF60-NN-38G
			32,1 mm	13,5 mm	15,8 mm	8,0 mm	PF80-NN-38G

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Thread Z	Thread length ZH	WAF OK1	Length N	Length H	WAF OK2	Nominal diameter D	Code
G½"	14,2 mm	27,0 mm	35,6 mm	12,0 mm	11,1 mm	3,0 mm	PF30-NN-12G
			36,5 mm	12,0 mm	12,7 mm	4,5 mm	PF45-NN-12G
			37,5 mm	12,7 mm	14,2 mm	6,0 mm	PF60-NN-12G
			38,2 mm	13,5 mm	15,8 mm	8,0 mm	PF80-NN-12G
			39,5 mm	17,5 mm	22,2 mm	11,0 mm	PF11-NN-12G
			39,8 mm	17,5 mm	25,4 mm	14,0 mm	PF14-NN-12G
G¾"	16,0 mm	31,8 mm	41,5 mm	12,7 mm	14,2 mm	6,0 mm	PF60-NN-34G
			42,2 mm	13,5 mm	14,8 mm	8,0 mm	PF80-NN-34G

Note:

Approximate weight of the product: PF45-NN-12G ... ~ 100 g

Spare ferrules (Table PS.12)

Material / type	WAF OK (OK1)	Nominal diameter D	Code
 Oval ferrule (Stainless steel)	10 mm	1,5 mm	PSO-N-1.5
		2,0 mm	PSO-N-2.0
		3,0 mm	PSO-N1-3.0
	14 mm	3,0 mm	PSO-N2-3.0
		4,5 mm	PSO-N-4.5
		6,0 mm	PSO-N-6.0
	17 mm	8,0 mm	PSO-N-8.0
 C-type ferrule (Stainless steel)	10 mm	3,0 mm	PSOC-N1-3.0
	14 mm	3,0 mm	PSOC-N2-3.0
		4,5 mm	PSOC-N-4.5
		6,0 mm	PSOC-N-6.0
 Silon ferrule (silon)	36 mm	14,0 mm	PSO-S-14
		22,0 mm	PSO-S-22
 Double notch ferrule (Stainless steel)	-	3,0 mm	PFO-ND-3.0
		4,5 mm	PFO-ND-4.5
		6,0 mm	PFO-ND-6.0
		8,0 mm	PFO-ND-8.0
		11,0 mm	PFO-ND-11.0
		14,0 mm	PFO-ND-14.0
 Single notch ferrule (Stainless steel)	-	1,0 mm	PFO-N-1.0
		1,5 mm	PFO-N-1.5
		2,0 mm	PFO-N-2.0
		3,0 mm	PFO-N-3.0
		4,5 mm	PFO-N-4.5
		6,0 mm	PFO-N-6.0
		8,0 mm	PFO-N-8.0
		11,0 mm	PFO-N-11.0
		14,0 mm	PFO-N-14.0

Note:

Approximate weight of the product: PSO-N1-3.0 ... ~ 5 g

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