

# Safety Instructions

## **Micropilot**

### **FMR50/51/52/53/54/56/57**

4-20 mA HART

Associated Safety Instructions (XA) on page 4



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# Micropilot FMR50/51/52/53/54/56/57

4-20 mA HART

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**Associated documentation**

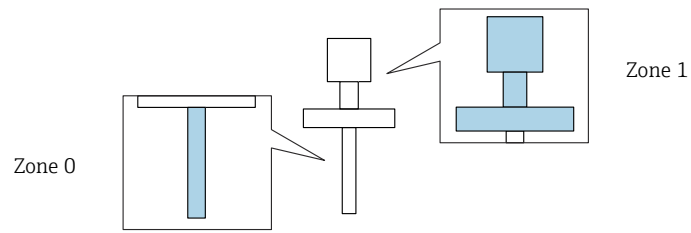
This document is an integral part of the following Safety Instructions:

ATEX, IECEX:  
XA00680F/00

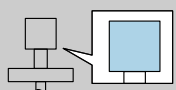
UK:  
XA02386F/00

INMETRO:  
XA01292F/00

Zone 0, Zone 1: 1 channel      Position 3 = A, B, C, K, L: 1 channel used

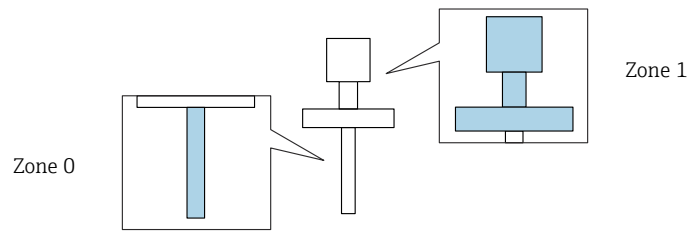


**FMR5x**

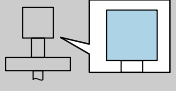
 = B, C	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-20	60	60	60	60	60	60	-40 -50 <sup>1)</sup>	-20	-40 -50 <sup>1)</sup>	-	-
		T5	-20	75	60	75	60	75	60	-40 -50 <sup>1)</sup>	-20	-40 -50 <sup>1)</sup>	-	-
		T4	-20	80	60	80	60	80	60	-40 -50 <sup>1)</sup>	-20	-40 -50 <sup>1)</sup>	-	-
	K, L	T6	-20	60	60	60	60	60	60	-40	-20	-40	-	-
		T5	-20	75	60	75	60	75	60	-40	-20	-40	-	-
		T4	-20	76	60	76	60	76	60	-40	-20	-40	-	-

1) Only in connection with Optional specification, ID Jx = JN

Zone 0, Zone 1: 2 channels      Position 3 = B, C: 2 channels used



**FMR5x**

 = B, C	(2)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	B	T6	-20	60	60	60	60	60	60	-40 -50 <sup>1)</sup>	-20	-40 -50 <sup>1)</sup>	-	-
		T5	-20	75	60	75	60	75	60	-40 -50 <sup>1)</sup>	-20	-40 -50 <sup>1)</sup>	-	-
	C	T6	-20	60	60	60	60	60	60	-40 -50 <sup>1)</sup>	-20	-40 -50 <sup>1)</sup>	-	-
		T5	-20	75	60	75	60	75	60	-40 -50 <sup>1)</sup>	-20	-40 -50 <sup>1)</sup>	-	-
		T4	-20	78	60	78	60	78	60	-40 -50 <sup>1)</sup>	-20	-40 -50 <sup>1)</sup>	-	-

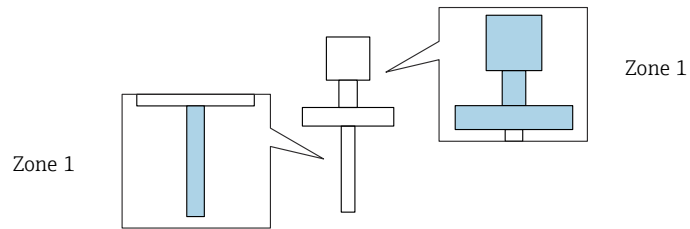
1) Only in connection with Optional specification, ID Jx = JN

**Zone 1: 1 channel**

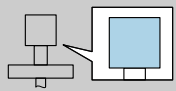
Position 3 = A, B, C, K, L: 1 channel used

Page references to the temperature tables of the respective device types: See the following list.

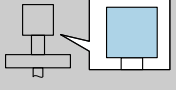
- FMR50 → 7
- FMR51 → 8
- FMR52 → 12
- FMR53 → 14
- FMR54 → 16
- FMR56 → 22
- FMR57 → 23



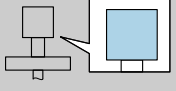
**FMR50**

	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-40	60	60	60	80	58	80	-40	-40	-40	-	-
	K, L	T6	-40	60	60	60	80	58	80	-40	-40	-40	-	-

## FMR51

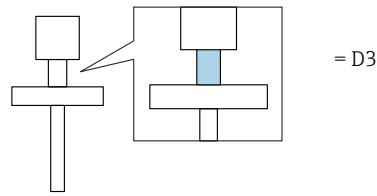
 = B	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-40	60	60	60	85	54	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	69	100	-40	-40	-40	-	-
		T4	-40	80	80	80	135	68	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	80	80	80	150	65	150	-40	-40	-40	-	-
	K, L	T6	-40	60	60	60	85	54	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	69	100	-40	-40	-40	-	-
		T4	-40	76	76	76	135	64	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	76	76	76	150	61	150	-40	-40	-40	-	-

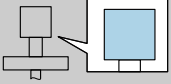
1) Functional: Maximum permissible process temperature

 = C	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-40	60	60	60	85	55	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	70	100	-40	-40	-40	-	-
		T4	-40	80	80	80	135	70	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	80	80	80	150	68	150	-40	-40	-40	-	-
	K, L	T6	-40	60	60	60	85	55	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	70	100	-40	-40	-40	-	-
		T4	-40	76	76	76	135	66	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	76	76	76	150	64	150	-40	-40	-40	-	-

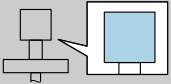
1) Functional: Maximum permissible process temperature

**FMR51**



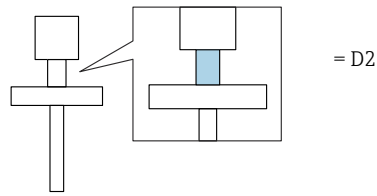
 = B	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-40	60	60	60	85	57	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	72	100	-40	-40	-40	-	-
		T4	-40	80	80	80	135	74	135	-40	-40	-40	-	-
		T3	-40	80	80	80	200	67	200	-40	-40	-40	-	-
		T2 <sup>1)</sup>	-40	80	80	80	250	62	250	-40	-40	-40	-	-
	K, L	T6	-40	60	60	60	85	57	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	72	100	-40	-40	-40	-	-
		T4	-40	76	76	76	135	70	135	-40	-40	-40	-	-
		T3	-40	76	76	76	200	63	200	-40	-40	-40	-	-
		T2 <sup>1)</sup>	-40	76	76	76	250	58	250	-40	-40	-40	-	-

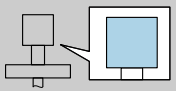
1) Functional: Maximum permissible process temperature

 = C	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-40	60	60	60	85	58	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	73	100	-40	-40	-40	-	-
		T4	-40	80	80	80	135	75	135	-40	-40	-40	-	-
		T3	-40	80	80	80	200	70	200	-40	-40	-40	-	-
		T2 <sup>1)</sup>	-40	80	80	80	250	66	250	-40	-40	-40	-	-
	K, L	T6	-40	60	60	60	85	58	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	73	100	-40	-40	-40	-	-
		T4	-40	76	76	76	135	72	135	-40	-40	-40	-	-
		T3	-40	76	76	76	200	66	200	-40	-40	-40	-	-
		T2 <sup>1)</sup>	-40	76	76	76	250	62	250	-40	-40	-40	-	-

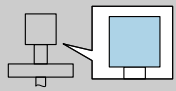
1) Functional: Maximum permissible process temperature

FMR51



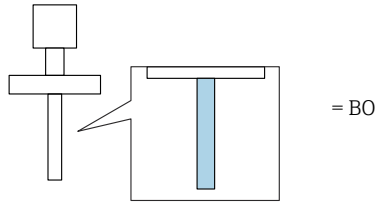
 = B	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-196	60	60	60	85	56	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T5	-196	75	75	75	100	71	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T4	-196	80	80	80	135	72	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T3	-196	80	80	80	200	64	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T2	-196	80	80	80	300	50	300	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
	K, L	T6	-196	60	60	60	85	56	85	-40	-40	-40	-196	-15
		T5	-196	75	75	75	100	71	100	-40	-40	-40	-196	-15
		T4	-196	76	76	76	135	68	135	-40	-40	-40	-196	-15
		T3	-196	76	76	76	200	60	200	-40	-40	-40	-196	-15
		T2	-196	76	76	76	300	46	300	-40	-40	-40	-196	-15

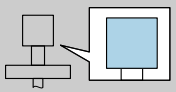
1) Only in connection with Optional specification, ID Jx = JN

	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-196	60	60	60	85	57	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-20 -28 <sup>1)</sup>
		T5	-196	75	75	75	100	72	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-20 -28 <sup>1)</sup>
		T4	-196	80	80	80	135	74	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-20 -28 <sup>1)</sup>
		T3	-196	80	80	80	200	67	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-20 -28 <sup>1)</sup>
		T2	-196	80	80	80	300	56	300	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-20 -28 <sup>1)</sup>
		T1	-196	80	80	80	450	39	450	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-20 -28 <sup>1)</sup>
	K, L	T6	-196	60	60	60	85	57	85	-40	-40	-40	-196	-20
		T5	-196	75	75	75	100	72	100	-40	-40	-40	-196	-20
		T4	-196	76	76	76	135	70	135	-40	-40	-40	-196	-20
		T3	-196	76	76	76	200	63	200	-40	-40	-40	-196	-20
		T2	-196	76	76	76	300	52	300	-40	-40	-40	-196	-20
		T1	-196	76	76	76	450	36	450	-40	-40	-40	-196	-20

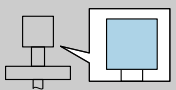
1) Only in connection with Optional specification, ID Jx = JN

FMR52



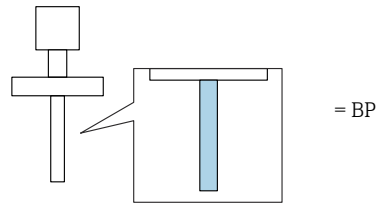
 = B	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-196	60	60	60	85	55	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-3
		T5	-196	75	75	75	100	70	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-3
		T4	-196	80	80	80	135	71	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-3
		T3	-196	80	80	80	200	59	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-3
	K, L	T6	-196	60	60	60	85	55	85	-40	-40	-40	-196	-3
		T5	-196	75	75	75	100	70	100	-40	-40	-40	-196	-3
		T4	-196	76	76	76	135	66	135	-40	-40	-40	-196	-3
		T3	-196	76	76	76	200	55	200	-40	-40	-40	-196	-3

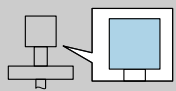
1) Only in connection with Optional specification, ID Jx = JN

 = C	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-196	60	60	60	85	56	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-14
		T5	-196	75	75	75	100	71	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-14
		T4	-196	80	80	80	135	72	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-14
		T3	-196	80	80	80	200	63	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-14
	K, L	T6	-196	60	60	60	85	56	85	-40	-40	-40	-196	-14
		T5	-196	75	75	75	100	71	100	-40	-40	-40	-196	-14
		T4	-196	76	76	76	135	68	135	-40	-40	-40	-196	-14
		T3	-196	76	76	76	200	59	200	-40	-40	-40	-196	-14

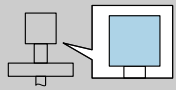
1) Only in connection with Optional specification, ID Jx = JN

**FMR52**



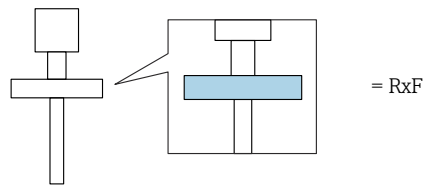
 = B	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-196	60	60	60	85	54	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	10
		T5	-196	75	75	75	100	69	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	10
		T4	-196	80	80	80	135	69	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	10
		T3	-196	80	80	80	200	55	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	10
	K, L	T6	-196	60	60	60	85	54	85	-40	-40	-40	-196	10
		T5	-196	75	75	75	100	69	100	-40	-40	-40	-196	10
		T4	-196	76	76	76	135	64	135	-40	-40	-40	-196	10
		T3	-196	76	76	76	200	51	200	-40	-40	-40	-196	10

1) Only in connection with Optional specification, ID Jx = JN

 = C	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-196	60	60	60	85	55	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-8
		T5	-196	75	75	75	100	70	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-8
		T4	-196	80	80	80	135	71	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-8
		T3	-196	80	80	80	200	60	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-8
	K, L	T6	-196	60	60	60	85	55	85	-40	-40	-40	-196	-8
		T5	-196	75	75	75	100	70	100	-40	-40	-40	-196	-8
		T4	-196	76	76	76	135	67	135	-40	-40	-40	-196	-8
		T3	-196	76	76	76	200	56	200	-40	-40	-40	-196	-8

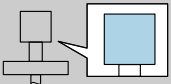
1) Only in connection with Optional specification, ID Jx = JN

FMR53

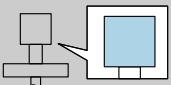


= B, C	(1)		P1		P2		P3		P4		P5		P6	
			T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>
	A, B, C	T6	-40	60	60	60	80	58	80	-40	-40	-40	-	-
	K, L	T6	-40	60	60	60	80	58	80	-40	-40	-40	-	-

**FMR53**

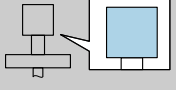
 = B	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-40	60	60	60	85	53	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	68	100	-40	-40	-40	-	-
		T4	-40	80	80	80	135	67	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	80	80	80	150	64	150	-40	-40	-40	-	-
	K, L	T6	-40	60	60	60	85	53	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	68	100	-40	-40	-40	-	-
		T4	-40	76	76	76	135	63	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	76	76	76	150	59	150	-40	-40	-40	-	-

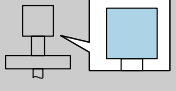
1) Functional: Maximum permissible process temperature

 = C	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-40	60	60	60	85	54	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	69	100	-40	-40	-40	-	-
		T4	-40	80	80	80	135	70	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	80	80	80	150	67	150	-40	-40	-40	-	-
	K, L	T6	-40	60	60	60	85	54	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	69	100	-40	-40	-40	-	-
		T4	-40	76	76	76	135	65	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	76	76	76	150	63	150	-40	-40	-40	-	-

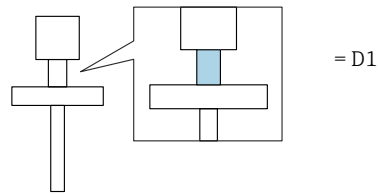
1) Functional: Maximum permissible process temperature

## FMR54

 = B	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-40	60	60	60	85	53	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	68	100	-40	-40	-40	-	-
		T4	-40	80	80	80	135	67	135	-40	-40	-40	-	-
		T3	-40	80	80	80	200	51	200	-40	-40	-40	-	-
	K, L	T6	-40	60	60	60	85	53	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	68	100	-40	-40	-40	-	-
		T4	-40	76	76	76	135	62	135	-40	-40	-40	-	-
		T3	-40	76	76	76	200	46	200	-40	-40	-40	-	-

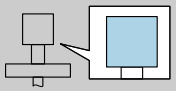
 = C	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-40	60	60	60	85	54	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	69	100	-40	-40	-40	-	-
		T4	-40	80	80	80	135	69	135	-40	-40	-40	-	-
		T3	-40	80	80	80	200	56	200	-40	-40	-40	-	-
	K, L	T6	-40	60	60	60	85	54	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	69	100	-40	-40	-40	-	-
		T4	-40	76	76	76	135	65	135	-40	-40	-40	-	-
		T3	-40	76	76	76	200	52	200	-40	-40	-40	-	-

**FMR54**



= B	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-196	60	60	60	85	55	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-4
		T5	-196	75	75	75	100	70	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-4
		T4	-196	80	80	80	135	71	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-4
		T3	-196	80	80	80	200	60	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-4
		T2 <sup>2)</sup>	-196	80	80	80	280	46	280	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-4
	K, L	T6	-196	60	60	60	85	55	85	-40	-40	-40	-196	-4
		T5	-196	75	75	75	100	70	100	-40	-40	-40	-196	-4
		T4	-196	76	76	76	135	67	135	-40	-40	-40	-196	-4
		T3	-196	76	76	76	200	55	200	-40	-40	-40	-196	-4
		T2 <sup>2)</sup>	-196	76	76	76	280	42	280	-40	-40	-40	-196	-4

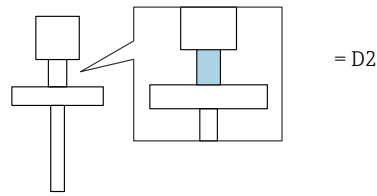
- 1) Only in connection with Optional specification, ID Jx = JN
- 2) Functional: Maximum permissible process temperature

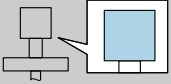
 = C	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-196	60	60	60	85	56	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T5	-196	75	75	75	100	71	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T4	-196	80	80	80	135	72	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T3	-196	80	80	80	200	64	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T2 <sup>2)</sup>	-196	80	80	80	280	53	280	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
	K, L	T6	-196	60	60	60	85	56	85	-40	-40	-40	-196	-15
		T5	-196	75	75	75	100	71	100	-40	-40	-40	-196	-15
		T4	-196	76	76	76	135	69	135	-40	-40	-40	-196	-15
		T3	-196	76	76	76	200	60	200	-40	-40	-40	-196	-15
		T2 <sup>2)</sup>	-196	76	76	76	280	49	280	-40	-40	-40	-196	-15

1) Only in connection with Optional specification, ID Jx = JN

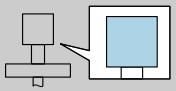
2) Functional: Maximum permissible process temperature

**FMR54**



 = B	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-196	60	60	60	85	56	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-13
		T5	-196	75	75	75	100	71	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-13
		T4	-196	80	80	80	135	72	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-13
		T3	-196	80	80	80	200	62	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-13
		T2	-196	80	80	80	300	48	300	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-13
		T1 <sup>2)</sup>	-196	80	80	80	400	31	400	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-13
	K, L	T6	-196	60	60	60	85	56	85	-40	-40	-40	-196	-13
		T5	-196	75	75	75	100	71	100	-40	-40	-40	-196	-13
		T4	-196	76	76	76	135	68	135	-40	-40	-40	-196	-13
		T3	-196	76	76	76	200	58	200	-40	-40	-40	-196	-13
		T2	-196	76	76	76	300	44	300	-40	-40	-40	-196	-13

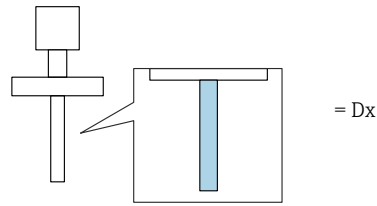
1) Only in connection with Optional specification, ID Jx = JN  
 2) Functional: Maximum permissible process temperature

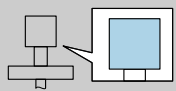
 = C	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-196	60	60	60	85	57	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-19 -26 <sup>1)</sup>
		T5	-196	75	75	75	100	72	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-19 -26 <sup>1)</sup>
		T4	-196	80	80	80	135	74	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-19 -26 <sup>1)</sup>
		T3	-196	80	80	80	200	66	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-19 -26 <sup>1)</sup>
		T2	-196	80	80	80	300	54	300	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-19 -26 <sup>1)</sup>
		T1 <sup>2)</sup>	-196	80	80	80	400	42	400	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-19 -26 <sup>1)</sup>
	K, L	T6	-196	60	60	60	85	57	85	-40	-40	-40	-196	-19
		T5	-196	75	75	75	100	72	100	-40	-40	-40	-196	-19
		T4	-196	76	76	76	135	70	135	-40	-40	-40	-196	-19
		T3	-196	76	76	76	200	62	200	-40	-40	-40	-196	-19
		T2	-196	76	76	76	300	50	300	-40	-40	-40	-196	-19
		T1 <sup>2)</sup>	-196	76	76	76	400	39	400	-40	-40	-40	-196	-19

1) Only in connection with Optional specification, ID Jx = JN

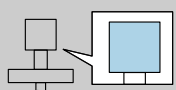
2) Functional: Maximum permissible process temperature

**FMR54**



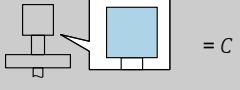
 = B	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-40	60	60	60	85	55	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	70	100	-40	-40	-40	-	-
		T4	-40	80	80	80	135	70	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	80	80	80	150	68	150	-40	-40	-40	-	-
	K, L	T6	-40	60	60	60	85	55	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	70	100	-40	-40	-40	-	-
		T4	-40	76	76	76	135	66	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	76	76	76	150	63	150	-40	-40	-40	-	-

1) Functional: Maximum permissible process temperature

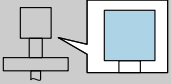
 = C	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-40	60	60	60	85	56	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	71	100	-40	-40	-40	-	-
		T4	-40	80	80	80	135	72	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	80	80	80	150	70	150	-40	-40	-40	-	-
	K, L	T6	-40	60	60	60	85	56	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	71	100	-40	-40	-40	-	-
		T4	-40	76	76	76	135	68	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	76	76	76	150	66	150	-40	-40	-40	-	-

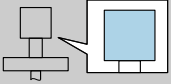
1) Functional: Maximum permissible process temperature

## FMR56

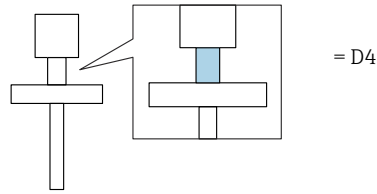
	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-40	60	60	60	80	58	80	-40	-40	-40	-	-
	K, L	T6	-40	60	60	60	80	58	80	-40	-40	-40	-	-

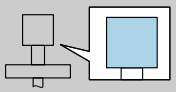
FMR57

 = B	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-40	60	60	60	85	56	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	71	100	-40	-40	-40	-	-
		T4	-40	80	80	80	135	73	135	-40	-40	-40	-	-
		T3	-40	80	80	80	200	65	200	-40	-40	-40	-	-
	K, L	T6	-40	60	60	60	85	56	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	71	100	-40	-40	-40	-	-
		T4	-40	76	76	76	135	69	135	-40	-40	-40	-	-
		T3	-40	76	76	76	200	62	200	-40	-40	-40	-	-

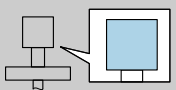
 = C	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-40	60	60	60	85	57	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	72	100	-40	-40	-40	-	-
		T4	-40	80	80	80	135	75	135	-40	-40	-40	-	-
		T3	-40	80	80	80	200	69	200	-40	-40	-40	-	-
	K, L	T6	-40	60	60	60	85	57	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	72	100	-40	-40	-40	-	-
		T4	-40	76	76	76	135	71	135	-40	-40	-40	-	-
		T3	-40	76	76	76	200	65	200	-40	-40	-40	-	-

FMR57



 = B	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-40	60	60	60	85	57	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	72	100	-40	-40	-40	-	-
		T4	-40	80	80	80	135	75	135	-40	-40	-40	-	-
		T3	-40	80	80	80	200	69	200	-40	-40	-40	-	-
		T2	-40	80	80	80	300	60	300	-40	-40	-40	-	-
		T1 <sup>1)</sup>	-40	80	80	80	400	51	400	-40	-40	-40	-	-
	K, L	T6	-40	60	60	60	85	57	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	72	100	-40	-40	-40	-	-
		T4	-40	76	76	76	135	71	135	-40	-40	-40	-	-
		T3	-40	76	76	76	200	65	200	-40	-40	-40	-	-
		T2	-40	76	76	76	300	56	300	-40	-40	-40	-	-
		T1 <sup>1)</sup>	-40	76	76	76	400	47	400	-40	-40	-40	-	-

1) Functional: Maximum permissible process temperature

 = C	(1)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	A, B, C	T6	-40	60	60	60	85	58	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	73	100	-40	-40	-40	-	-
		T4	-40	80	80	80	135	76	135	-40	-40	-40	-	-
		T3	-40	80	80	80	200	71	200	-40	-40	-40	-	-
		T2	-40	80	80	80	300	64	300	-40	-40	-40	-	-
		T1 <sup>1)</sup>	-40	80	80	80	400	57	400	-40	-40	-40	-	-
	K, L	T6	-40	60	60	60	85	58	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	73	100	-40	-40	-40	-	-
		T4	-40	76	76	76	135	72	135	-40	-40	-40	-	-
		T3	-40	76	76	76	200	68	200	-40	-40	-40	-	-
		T2	-40	76	76	76	300	61	300	-40	-40	-40	-	-
		T1 <sup>1)</sup>	-40	76	76	76	400	53	400	-40	-40	-40	-	-

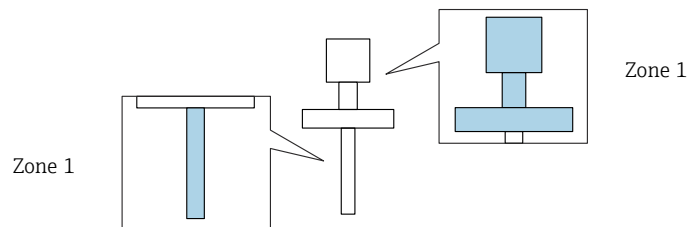
1) Functional: Maximum permissible process temperature

**Zone 1: 2 channels**

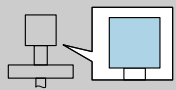
Position 3 = B, C: 2 channels used

Page references to the temperature tables of the respective device types: See the following list.

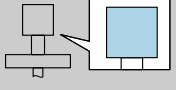
- FMR50 → 25
- FMR51 → 26
- FMR52 → 30
- FMR53 → 32
- FMR54 → 34
- FMR56 → 40
- FMR57 → 41



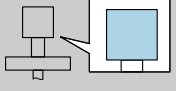
**FMR50**

 = C	(2)	T6	P1		P2		P3		P4		P5		P6	
			T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>
	B, C	T6	-40	60	60	60	80	58	80	-40	-40	-40	-	-

## FMR51

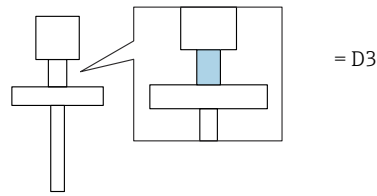
 = B	(2)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	B	T6	-40	60	60	60	85	54	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	69	100	-40	-40	-40	-	-
		T4	-40	75	75	75	135	62	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	75	75	75	150	59	150	-40	-40	-40	-	-
	C	T6	-40	60	60	60	85	54	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	69	100	-40	-40	-40	-	-
		T4	-40	78	78	78	135	66	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	78	78	78	150	63	150	-40	-40	-40	-	-

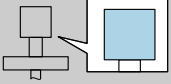
1) Functional: Maximum permissible process temperature

 = C	(2)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	B	T6	-40	60	60	60	85	55	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	70	100	-40	-40	-40	-	-
		T4	-40	75	75	75	135	65	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	75	75	75	150	62	150	-40	-40	-40	-	-
	C	T6	-40	60	60	60	85	55	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	70	100	-40	-40	-40	-	-
		T4	-40	78	78	78	135	68	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	78	78	78	150	66	150	-40	-40	-40	-	-

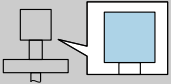
1) Functional: Maximum permissible process temperature

**FMR51**



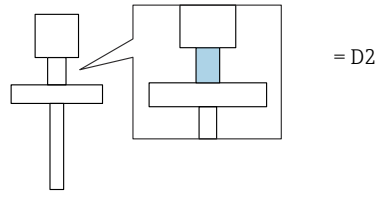
	(2)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	B	T6	-40	60	60	60	85	57	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	72	100	-40	-40	-40	-	-
		T4	-40	75	75	75	135	69	135	-40	-40	-40	-	-
		T3	-40	75	75	75	200	62	200	-40	-40	-40	-	-
		T2 <sup>1)</sup>	-40	75	75	75	250	57	250	-40	-40	-40	-	-
	C	T6	-40	60	60	60	85	57	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	72	100	-40	-40	-40	-	-
		T4	-40	78	78	78	135	72	135	-40	-40	-40	-	-
		T3	-40	78	78	78	200	65	200	-40	-40	-40	-	-
		T2 <sup>1)</sup>	-40	78	78	78	250	60	250	-40	-40	-40	-	-

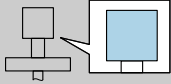
1) Functional: Maximum permissible process temperature

	(2)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	B	T6	-40	60	60	60	85	58	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	73	100	-40	-40	-40	-	-
		T4	-40	75	75	75	135	70	135	-40	-40	-40	-	-
		T3	-40	75	75	75	200	65	200	-40	-40	-40	-	-
		T2 <sup>1)</sup>	-40	75	75	75	250	60	250	-40	-40	-40	-	-
	C	T6	-40	60	60	60	85	58	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	73	100	-40	-40	-40	-	-
		T4	-40	78	78	78	135	73	135	-40	-40	-40	-	-
		T3	-40	78	78	78	200	68	200	-40	-40	-40	-	-
		T2 <sup>1)</sup>	-40	78	78	78	250	64	250	-40	-40	-40	-	-

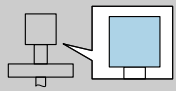
1) Functional: Maximum permissible process temperature

FMR51



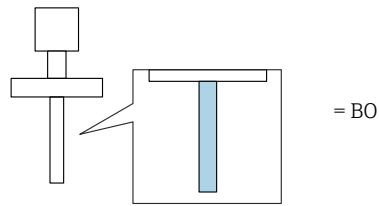
 = B	(2)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	B	T6	-196	60	60	60	85	56	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T5	-196	75	75	75	100	71	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T4	-196	75	75	75	135	67	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T3	-196	75	75	75	200	58	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T2	-196	75	75	75	300	44	300	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
	C	T6	-196	60	60	60	85	56	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T5	-196	75	75	75	100	71	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T4	-196	78	78	78	135	70	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T3	-196	78	78	78	200	61	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T2	-196	78	78	78	300	48	300	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15

1) Only in connection with Optional specification, ID Jx = JN

	(2)		P1		P2		P3		P4		P5		P6	
			T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>
	B	T6	-196	60	60	60	85	57	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-20 -28 <sup>1)</sup>
		T5	-196	75	75	75	100	72	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-20 -28 <sup>1)</sup>
		T4	-196	75	75	75	135	68	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-20 -28 <sup>1)</sup>
		T3	-196	75	75	75	200	61	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-20 -28 <sup>1)</sup>
		T2	-196	75	75	75	300	51	300	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-20 -28 <sup>1)</sup>
		T1	-196	75	75	75	450	34	450	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-20 -28 <sup>1)</sup>
	C	T6	-196	60	60	60	85	57	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-20 -28 <sup>1)</sup>
		T5	-196	75	75	75	100	72	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-20 -28 <sup>1)</sup>
		T4	-196	78	78	78	135	72	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-20 -28 <sup>1)</sup>
		T3	-196	78	78	78	200	65	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-20 -28 <sup>1)</sup>
		T2	-196	78	78	78	300	54	300	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-20 -28 <sup>1)</sup>
		T1	-196	78	78	78	450	38	450	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-20 -28 <sup>1)</sup>

1) Only in connection with Optional specification, ID Jx = JN

FMR52



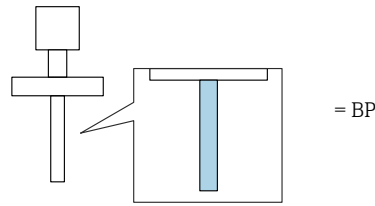
= B	(2)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	B	T6	-196	60	60	60	85	55	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-3
		T5	-196	75	75	75	100	70	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-3
		T4	-196	75	75	75	135	65	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-3
		T3	-196	75	75	75	200	53	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-3
	C	T6	-196	60	60	60	85	55	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-3
		T5	-196	75	75	75	100	70	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-3
		T4	-196	78	78	78	135	68	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-3
		T3	-196	78	78	78	200	57	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-3

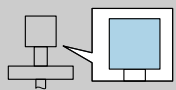
1) Only in connection with Optional specification, ID Jx = JN

= C	(2)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	B	T6	-196	60	60	60	85	56	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-14
		T5	-196	75	75	75	100	71	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-14
		T4	-196	75	75	75	135	67	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-14
		T3	-196	75	75	75	200	58	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-14
	C	T6	-196	60	60	60	85	56	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-14
		T5	-196	75	75	75	100	71	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-14
		T4	-196	78	78	78	135	70	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-14
		T3	-196	78	78	78	200	61	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-14

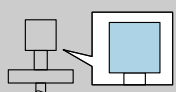
1) Only in connection with Optional specification, ID Jx = JN

**FMR52**



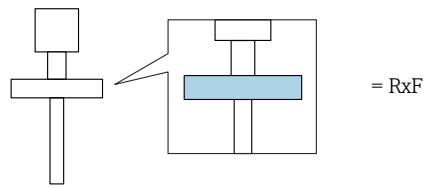
 = B	(2)		P1		P2		P3		P4		P5		P6	
			T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>
	B	T6	-196	60	60	60	85	54	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	10
		T5	-196	75	75	75	100	69	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	10
		T4	-196	75	75	75	135	63	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	10
		T3	-196	75	75	75	200	49	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	10
	C	T6	-196	60	60	60	85	54	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	10
		T5	-196	75	75	75	100	69	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	10
		T4	-196	78	78	78	135	66	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	10
		T3	-196	78	78	78	200	53	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	10

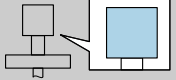
1) Only in connection with Optional specification, ID Jx = JN

 = C	(2)		P1		P2		P3		P4		P5		P6	
			T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>
	B	T6	-196	60	60	60	85	55	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-8
		T5	-196	75	75	75	100	70	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-8
		T4	-196	75	75	75	135	65	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-8
		T3	-196	75	75	75	200	54	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-8
	C	T6	-196	60	60	60	85	55	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-8
		T5	-196	75	75	75	100	70	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-8
		T4	-196	78	78	78	135	69	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-8
		T3	-196	78	78	78	200	58	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-8

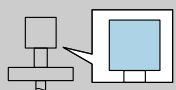
1) Only in connection with Optional specification, ID Jx = JN

FMR53

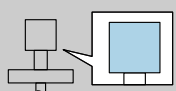


 = B, C	(2)	T6	P1		P2		P3		P4		P5		P6	
			T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>
	B, C	T6	-40	60	60	60	80	58	80	-40	-40	-40	-	-

**FMR53**

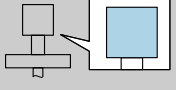
 = B	(2)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	B	T6	-40	60	60	60	85	53	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	68	100	-40	-40	-40	-	-
		T4	-40	75	75	75	135	61	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	75	75	75	150	58	150	-40	-40	-40	-	-
	C	T6	-40	60	60	60	85	53	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	68	100	-40	-40	-40	-	-
		T4	-40	78	78	78	135	65	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	78	78	78	150	61	150	-40	-40	-40	-	-

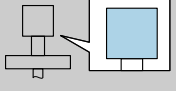
1) Functional: Maximum permissible process temperature

 = C	(2)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	B	T6	-40	60	60	60	85	54	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	69	100	-40	-40	-40	-	-
		T4	-40	75	75	75	135	64	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	75	75	75	150	61	150	-40	-40	-40	-	-
	C	T6	-40	60	60	60	85	54	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	69	100	-40	-40	-40	-	-
		T4	-40	78	78	78	135	67	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	78	78	78	150	64	150	-40	-40	-40	-	-

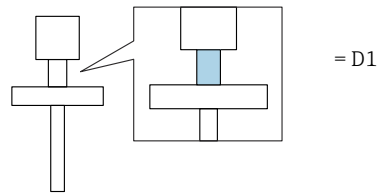
1) Functional: Maximum permissible process temperature

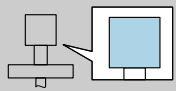
## FMR54

 = B	(2)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	B	T6	-40	60	60	60	85	53	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	68	100	-40	-40	-40	-	-
		T4	-40	75	75	75	135	60	135	-40	-40	-40	-	-
		T3	-40	75	75	75	200	45	200	-40	-40	-40	-	-
	C	T6	-40	60	60	60	85	53	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	68	100	-40	-40	-40	-	-
		T4	-40	78	78	78	135	64	135	-40	-40	-40	-	-
		T3	-40	78	78	78	200	48	200	-40	-40	-40	-	-

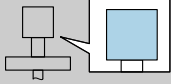
 = C	(2)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	B	T6	-40	60	60	60	85	54	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	69	100	-40	-40	-40	-	-
		T4	-40	75	75	75	135	63	135	-40	-40	-40	-	-
		T3	-40	75	75	75	200	50	200	-40	-40	-40	-	-
	C	T6	-40	60	60	60	85	54	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	69	100	-40	-40	-40	-	-
		T4	-40	78	78	78	135	67	135	-40	-40	-40	-	-
		T3	-40	78	78	78	200	54	200	-40	-40	-40	-	-

**FMR54**



	(2)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	B	T6	-196	60	60	60	85	55	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-4
		T5	-196	75	75	75	100	70	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-4
		T4	-196	75	75	75	135	65	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-4
		T3	-196	75	75	75	200	54	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-4
		T2 <sup>2)</sup>	-196	75	75	75	280	40	280	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-4
	C	T6	-196	60	60	60	85	55	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-4
		T5	-196	75	75	75	100	70	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-4
		T4	-196	78	78	78	135	68	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-4
		T3	-196	78	78	78	200	57	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-4
		T2 <sup>2)</sup>	-196	78	78	78	280	44	280	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-4

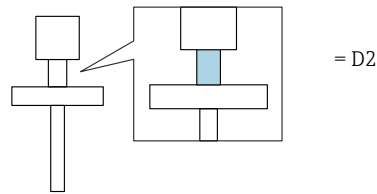
- 1) Only in connection with Optional specification, ID Jx = JN
- 2) Functional: Maximum permissible process temperature

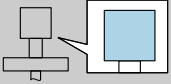
 = C	(2)		P1		P2		P3		P4		P5		P6	
			T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>
	B	T6	-196	60	60	60	85	56	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T5	-196	75	75	75	100	71	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T4	-196	75	75	75	135	67	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T3	-196	75	75	75	200	58	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T2 <sup>2)</sup>	-196	75	75	75	280	47	280	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
	C	T6	-196	60	60	60	85	56	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T5	-196	75	75	75	100	71	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T4	-196	78	78	78	135	70	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T3	-196	78	78	78	200	61	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15
		T2 <sup>2)</sup>	-196	78	78	78	280	51	280	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-15

1) Only in connection with Optional specification, ID Jx = JN

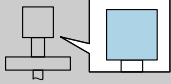
2) Functional: Maximum permissible process temperature

FMR54



 = B	(2)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	B	T6	-196	60	60	60	85	56	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-13
		T5	-196	75	75	75	100	71	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-13
		T4	-196	75	75	75	135	66	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-13
		T3	-196	75	75	75	200	57	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-13
		T2	-196	75	75	75	300	42	300	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-13
	C	T6	-196	60	60	60	85	56	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-13
		T5	-196	75	75	75	100	71	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-13
		T4	-196	78	78	78	135	70	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-13
		T3	-196	78	78	78	200	60	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-13
		T2	-196	78	78	78	300	46	300	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-13
		T1 <sup>2)</sup>	-196	78	78	78	400	31	400	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-13

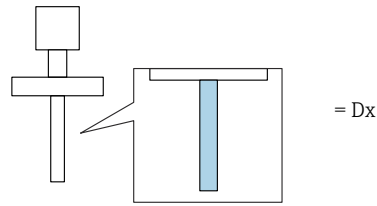
1) Only in connection with Optional specification, ID Jx = JN  
 2) Functional: Maximum permissible process temperature

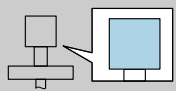
 = C	(2)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	B	T6	-196	60	60	60	85	57	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-19 -26 <sup>1)</sup>
		T5	-196	75	75	75	100	72	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-19 -26 <sup>1)</sup>
		T4	-196	75	75	75	135	68	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-19 -26 <sup>1)</sup>
		T3	-196	75	75	75	200	60	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-19 -26 <sup>1)</sup>
		T2	-196	75	75	75	300	49	300	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-19 -26 <sup>1)</sup>
		T1 <sup>2)</sup>	-196	75	75	75	400	37	400	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-19 -26 <sup>1)</sup>
	C	T6	-196	60	60	60	85	57	85	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-19 -26 <sup>1)</sup>
		T5	-196	75	75	75	100	72	100	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-19 -26 <sup>1)</sup>
		T4	-196	78	78	78	135	71	135	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-19 -26 <sup>1)</sup>
		T3	-196	78	78	78	200	64	200	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-19 -26 <sup>1)</sup>
		T2	-196	78	78	78	300	52	300	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-19 -26 <sup>1)</sup>
		T1 <sup>2)</sup>	-196	78	78	78	400	41	400	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-40 -50 <sup>1)</sup>	-196	-19 -26 <sup>1)</sup>

1) Only in connection with Optional specification, ID Jx = JN

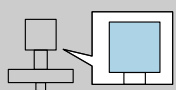
2) Functional: Maximum permissible process temperature

**FMR54**



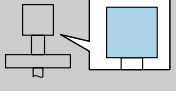
 = B	(2)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	B	T6	-40	60	60	60	85	55	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	70	100	-40	-40	-40	-	-
		T4	-40	75	75	75	135	64	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	75	75	75	150	62	150	-40	-40	-40	-	-
	C	T6	-40	60	60	60	85	55	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	70	100	-40	-40	-40	-	-
		T4	-40	78	78	78	135	68	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	78	78	78	150	65	150	-40	-40	-40	-	-

1) Functional: Maximum permissible process temperature

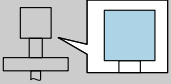
 = C	(2)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	B	T6	-40	60	60	60	85	56	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	71	100	-40	-40	-40	-	-
		T4	-40	75	75	75	135	66	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	75	75	75	150	64	150	-40	-40	-40	-	-
	C	T6	-40	60	60	60	85	56	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	71	100	-40	-40	-40	-	-
		T4	-40	78	78	78	135	70	135	-40	-40	-40	-	-
		T3 <sup>1)</sup>	-40	78	78	78	150	68	150	-40	-40	-40	-	-

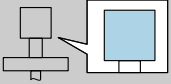
1) Functional: Maximum permissible process temperature

FMR56

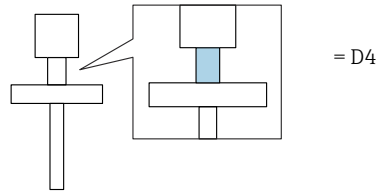
 = C	(2)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	B, C	T6	-40	60	60	60	80	58	80	-40	-40	-40	-	-

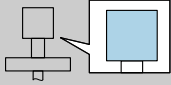
FMR57

 = B	(2)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	B	T6	-40	60	60	60	85	56	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	71	100	-40	-40	-40	-	-
		T4	-40	75	75	75	135	68	135	-40	-40	-40	-	-
		T3	-40	75	75	75	200	60	200	-40	-40	-40	-	-
	C	T6	-40	60	60	60	85	56	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	71	100	-40	-40	-40	-	-
		T4	-40	78	78	78	135	71	135	-40	-40	-40	-	-
		T3	-40	78	78	78	200	63	200	-40	-40	-40	-	-

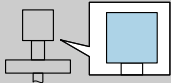
 = C	(2)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	B	T6	-40	60	60	60	85	57	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	72	100	-40	-40	-40	-	-
		T4	-40	75	75	75	135	69	135	-40	-40	-40	-	-
		T3	-40	75	75	75	200	63	200	-40	-40	-40	-	-
	C	T6	-40	60	60	60	85	57	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	72	100	-40	-40	-40	-	-
		T4	-40	78	78	78	135	73	135	-40	-40	-40	-	-
		T3	-40	78	78	78	200	66	200	-40	-40	-40	-	-

FMR57



 = B	(2)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	B	T6	-40	60	60	60	85	57	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	72	100	-40	-40	-40	-	-
		T4	-40	75	75	75	135	70	135	-40	-40	-40	-	-
		T3	-40	75	75	75	200	64	200	-40	-40	-40	-	-
		T2	-40	75	75	75	300	54	300	-40	-40	-40	-	-
		T1 <sup>1)</sup>	-40	75	75	75	400	45	400	-40	-40	-40	-	-
	C	T6	-40	60	60	60	85	57	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	72	100	-40	-40	-40	-	-
		T4	-40	78	78	78	135	73	135	-40	-40	-40	-	-
		T3	-40	78	78	78	200	67	200	-40	-40	-40	-	-
		T2	-40	78	78	78	300	58	300	-40	-40	-40	-	-
		T1 <sup>1)</sup>	-40	78	78	78	400	49	400	-40	-40	-40	-	-

1) Functional: Maximum permissible process temperature

 = C	(2)	P1		P2		P3		P4		P5		P6		
		T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	T <sub>p</sub>	T <sub>a</sub>	
	B	T6	-40	60	60	60	85	58	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	73	100	-40	-40	-40	-	-
		T4	-40	75	75	75	135	71	135	-40	-40	-40	-	-
		T3	-40	75	75	75	200	66	200	-40	-40	-40	-	-
		T2	-40	75	75	75	300	59	300	-40	-40	-40	-	-
		T1 <sup>1)</sup>	-40	75	75	75	400	52	400	-40	-40	-40	-	-
	C	T6	-40	60	60	60	85	58	85	-40	-40	-40	-	-
		T5	-40	75	75	75	100	73	100	-40	-40	-40	-	-
		T4	-40	78	78	78	135	74	135	-40	-40	-40	-	-
		T3	-40	78	78	78	200	69	200	-40	-40	-40	-	-
		T2	-40	78	78	78	300	62	300	-40	-40	-40	-	-
		T1 <sup>1)</sup>	-40	78	78	78	400	55	400	-40	-40	-40	-	-

1) Functional: Maximum permissible process temperature

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