

BCM Class-A Strain Gauges for Transducer Applications



BCM class-A strain gauges are specially developed for manufacturing precision transducers. For the purpose of this specific application, most of the class-A strain gauges are encapsulated gauges and possess both temperature and creep compensation properties.

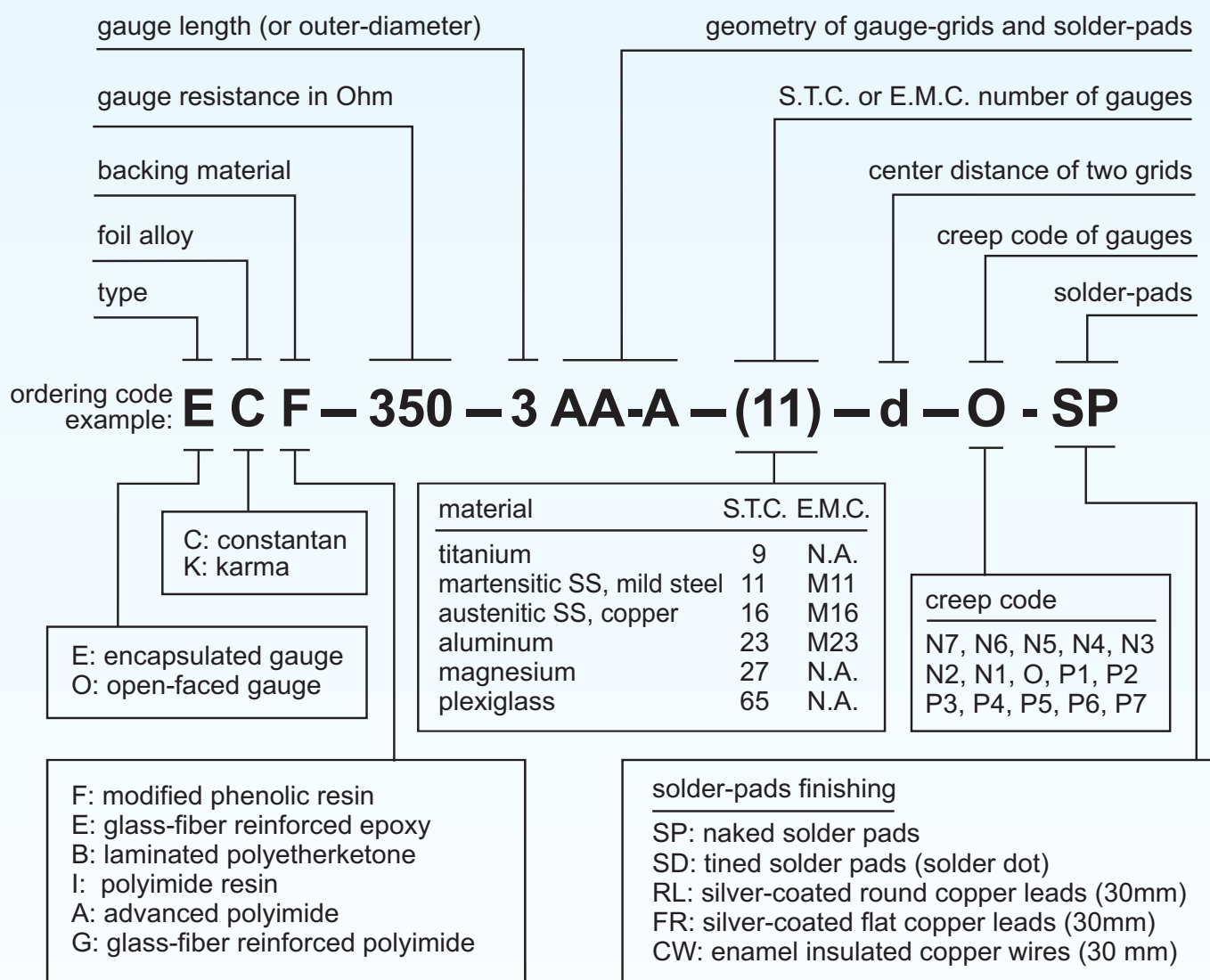
For a certain type of the class-A gauges, the gauge can be manufactured with effective modulus compensation as well, and those strain gauges are sometimes called EMC gauges.

The EMC gauges are manufactured from kamar foil (EKF-series), and the application of EMC gauges is a solution for manufacturing low-cost transducers because with EMC gauges one can eliminate the use of compensation resistors and achieve a moderate accuracy for concerned transducers.

For more information on temperature compensation (S.T.C.), creep compensation, and effective modulus compensation (E.M.C) of strain gauges, please refer to the corresponding topic of STC, Creep Compensation, and EMC, respectively.

Listed in the following table is the class-A gauges available in stock for quick delivery.



Ordering Information



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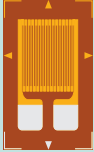
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Technical Data

Gauge Pattern (pattern number)	Gauge Part Number (P/N)	Gauge Grid Dimensions (L x W) in mm	Gauge Backing Dimensions (L x W) in mm	Gauge Creep Code *	Grid Center Distance (d) in mm
<p>1</p> 	ECF-200-4AA-(**)-O	4.0 x 2.2	8.0 x 3.6	O	not available
	ECE-200-4AA-(**)-O	4.0 x 2.2	8.0 x 3.6		
	ECF-200-6AA-(**)-O	6.0 x 2.3	10.7 x 4.8		
	ECE-200-6AA-(**)-O	6.0 x 2.3	10.7 x 4.8		
	ECF-300-1AA-(**)-O	1.1 x 1.3	3.6 x 2.2		
	ECE-300-1AA-(**)-O	1.1 x 1.3	3.6 x 2.2		
<p>2</p> 	ECF-350-2.4AA-A-(**)-O	2.4 x 2.0	5.5 x 2.5	O	not available
	ECE-350-2.4AA-A-(**)-O	2.4 x 2.0	5.5 x 2.5		
	ECF-350-3AA-A-(**)-O	2.9 x 1.8	5.5 x 2.5		
	ECE-350-3AA-A-(**)-O	2.9 x 1.8	5.5 x 2.5		
	The "AA-A" pattern is a narrow version of the "AA" pattern.				




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<p>3</p> 	EKF-350-0.8AA-(**)-#	0.8 x 1.4	2.6 x 3.1	O	not available
	ECF-350-1.5AA-(**)-#	1.5 x 2.5	4.5 x 3.5	N7, N6, N5, N4, N3, N2, N1, O, P1, P2, P4	not available
	OCF-350-1.5AA-(**)-#	1.5 x 2.5	4.5 x 3.5	N1, O, P1, P2, P4	not available
	ECF-350-2.4AA-(**)-O	2.4 x 3.0	4.9 x 4.0	O	not available
	ECE-350-2.4AA-(**)-O				
	ECF-350-2.5AA-(**)-#			N7, N6, N5, N4, N3, N2, N1, O, P1, P2, P3, P4, P5, P6, P7	not available
	ECE-350-2.5AA-(**)-#	2.5 x 3.3	6.5 x 4.5		not available
	EKF-1000-2.5AA-(**)-#				
	ECF-350-3AA-(**)-#	3.2 x 3.1	7.4 x 4.4		
	ECE-350-3AA-(**)-#	3.2 x 3.1	7.4 x 4.4		
	ECF-350-4AA-(**)-#	3.8 x 2.7	8.2 x 4.2	N7, N6, N5, N4, N3, N2, N1, O, P1, P2, P3, P4, P5, P6, P7	not available
	ECE-350-4AA-(**)-#	3.8 x 2.7	8.2 x 4.2		
	EKF-1000-3AA-(**)-#	3.2 x 3.1	7.4 x 4.4		
	EKF-1000-4AA-(**)-#	3.8 x 2.7	8.2 x 4.2		
	ECF-350-5AA-(**)-#	5.0 x 2.9	9.3 x 4.5	N1, O, P1, P2	not available
	ECE-350-5AA-(**)-#	5.0 x 2.9	9.3 x 4.5		
	ECF-350-6AA-(**)-O	6.1 x 3.1	10.4 x 5.4		
	ECE-350-6AA-(**)-O	6.1 x 3.1	10.4 x 5.4		
	ECF-500-4AA-(**)-O	4.0 x 3.3	7.9 x 4.6		
	ECE-500-4AA-(**)-O	4.0 x 3.3	7.9 x 4.6		
	ECF-600-4AA-(**)-O	4.2 x 4.0	8.6 x 5.8		
	ECE-600-4AA-(**)-O	4.2 x 4.0	8.6 x 5.8		
	ECF-650-4AA-(**)-O	4.0 x 4.4	8.6 x 6.0	O	not available
	ECE-650-4AA-(**)-O	4.0 x 4.4	8.6 x 6.0		
	ECF-650-5AA-(**)-O	5.0 x 3.9	9.0 x 5.6		
	ECE-650-5AA-(**)-O	5.0 x 3.9	9.0 x 5.6		
ECF-650-6AA-(**)-O	5.8 x 4.4	10.4 x 6.4			
ECE-650-6AA-(**)-O	5.8 x 4.4	10.4 x 6.4			





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<p>4</p> 	ECF-350-2FB-(**)-O	2.0 x 2.8	6.4 x 7.6	O	not available
	ECE-350-2FB-(**)-O	2.0 x 2.8	6.4 x 7.6		
	ECF-350-3FB-(**)-O	2.9 x 2.6	7.4 x 7.2		
	ECE-350-3FB-(**)-O	2.9 x 2.6	7.4 x 7.2		
	ECF-350-4FB-(**)-O	4.0 x 2.4	8.2 x 6.8		
	ECE-350-4FB-(**)-O	4.0 x 2.4	8.2 x 6.8		
	ECF-350-6FB-(**)-O	5.9 x 2.8	9.8 x 7.3		
	ECE-350-6FB-(**)-O	5.9 x 2.8	9.8 x 7.3		
<p>5</p> 	ECF-350-3AB-(**)-O	3.0 x 4.0	8.2 x 5.4	O	not available
	ECE-350-3AB-(**)-O	3.0 x 4.0	8.2 x 5.4		
	ECF-350-4AB-(**)-O	4.0 x 4.4	9.4 x 6.2		
	ECE-350-4AB-(**)-O	4.0 x 4.4	9.4 x 6.2		
	ECF-350-6AB-(**)-O	6.0 x 6.0	12.0 x 8.3		
	ECE-350-6AB-(**)-O	6.0 x 6.0	12.0 x 8.3		
	ECE-350-9AB-(**)-O	9.0 x 4.0	11.0 x 8.5		
	EKF-1000-3AB-(**)-O	4.2 x 4.0	8.2 x 5.1		
EKF-1000-4AB-(**)-O	5.6 x 4.4	9.1 x 5.8			
<p>6</p> 	ECF-350-3AC-(**)-O	3.0 x 4.0	8.2 x 5.4	O	not available
	ECE-350-3AC-(**)-O	3.0 x 4.0	8.2 x 5.4		
	ECF-350-4AC-(**)-O	4.0 x 4.4	9.4 x 6.2		
	ECE-350-4AC-(**)-O	4.0 x 4.4	9.4 x 6.2		
	ECF-350-6AC-(**)-O	6.0 x 6.0	12.0 x 8.3		
	ECE-350-6AC-(**)-O	6.0 x 6.0	12.0 x 8.3		
	ECE-350-9AC-(**)-O	9.0 x 4.0	11.0 x 8.5		
	EKF-1000-3AC-(**)-O	3.0 x 3.0	8.2 x 5.1		
	EKF-1000-4AC-(**)-O	5.6 x 4.4	9.1 x 5.8		

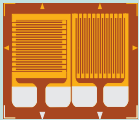
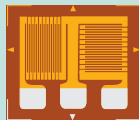

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<p>7</p> 	ECF-350-2HA-(**)-O	2.0 x 3.7	9.0 x 5.6	O	not available
	ECE-350-2HA-(**)-O				
	ECF-350-3HA-(**)-#	3.1 x 5.5	9.4 x 6.7		
	ECE-350-3HA-(**)-#	3.1 x 5.5	9.4 x 6.7		
	ECF-350-4HA-(**)-#	3.8 x 6.0	9.0 x 7.8	N7, N5, N3, N1, P1	not available
	ECE-350-4HA-(**)-#	3.8 x 6.0	9.0 x 7.8		
	EKF-1000-3HA-(**)-#	3.1 x 5.5	9.4 x 6.7		
	EKF-1000-4HA-(**)-#	3.8 x 6.0	9.0 x 7.8		
	ECF-350-6HA-(**)-O	5.8 x 9.2	10.5 x 10.8	O	not available
	ECE-350-6HA-(**)-O				
<p>8</p> 	ECF-350-2HA-A-(**)-O	2.0 x 3.7	9.0 x 5.6	O	not available
	ECE-350-2HA-A-(**)-O				
	ECF-350-3HA-A-(**)-#	3.0 x 5.5	9.4 x 6.7		
	ECF-350-4HA-A-(**)-#	3.8 x 6.0	9.0 x 7.8	N7, N5, N3, N1, P1	not available
	EKF-1000-3HA-A-(**)-#	3.0 x 5.5	9.4 x 6.7		
	EKF-1000-4HA-A-(**)-#	3.8 x 6.0	9.0 x 7.8		
	ECF-350-6HA-A-(**)-O	5.8 x 9.1	10.5 x 10.8	O	not available
ECE-350-6HA-A-(**)-O					
<p>9</p> 	ECF-350-2HA-B-(**)-O	2.0 x 3.7	9.0 x 5.6	O	not available
	ECF-350-3HA-B-(**)-#	3.1 x 6.5	9.5 x 7.8	N5, N3, N1, P1	not available
	ECF-1000-5HA-B-(**)-N1	4.9 x 9.8	15.7 x 9.6	N1	not available
<p>10</p> 	ECF-350-3HA-C-(**)-#	3.1 x 6.5	9.5 x 7.8	N7, N1	
	ECF-1000-3HA-C-(**)-N3	3.1 x 8.0	10.8 x 7.8	N3	not available







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<p>11</p> 	ECF-350-2BB-(**)-O	2.2 x 2.8	8.0 x 6.0	O	not available
	ECE-350-2BB-(**)-O	2.2 x 2.8	8.0 x 6.0		
	ECF-350-3BB-(**)-O	3.0 x 3.4	8.6 x 6.0		
	ECE-350-3BB-(**)-O	3.0 x 3.4	8.6 x 6.0		
	ECF-350-4BB-(**)-O	4.0 x 4.1	9.7 x 7.7		
	ECE-350-4BB-(**)-O	4.0 x 4.1	9.7 x 7.7		
	ECF-350-6BB-(**)-O	5.8 x 6.5	14.4 x 10.0		
	ECE-350-6BB-(**)-O	5.8 x 6.5	14.4 x 10.0		
	ECF-600-4BB-(**)-O	3.9 x 4.1	9.7 x 9.7		
	ECE-600-4BB-(**)-O	3.9 x 4.1	9.7 x 9.7		
	ECF-650-4BB-(**)-O	4.0 x 4.5	7.9 x 10.3		
	ECE-650-4BB-(**)-O	4.0 x 4.5	7.9 x 10.3		
	EKF1000-3BB-(**)-O	3.0 x 3.4	8.6 x 6.6		
	<p>12</p> 	ECF-350-2BB-A-(**)-O	2.1 x 2.6		
ECE-350-2BB-A-(**)-O		2.1 x 2.6	6.9 x 5.9		
EKF-350-2BB-A-(**)-O		1.8 x 2.2	5.4 x 6.4		
ECF-350-3BB-A-(**)-O		3.0 x 3.4	9.8 x 6.8		
ECE-350-3BB-A-(**)-O		3.0 x 3.4	9.8 x 6.8		
ECF-350-4BB-A-(**)-O		4.0 x 4.2	10.0 x 7.8		
ECE-350-4BB-A-(**)-O		4.0 x 4.2	10.0 x 7.8		
ECF-350-6BB-A-(**)-O		6.0 x 6.1	14.4 x 10.0		
ECE-350-6BB-A-(**)-O		6.0 x 6.1	14.4 x 10.0		
EKF1000-3BB-A-(**)-O		3.0 x 3.4	9.8 x 6.8		
<p>13</p> 		ECF-700-5BB-B-(**)-#	4.9 x 3.2	9.6 x 9.8	N1, O





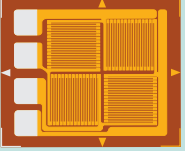
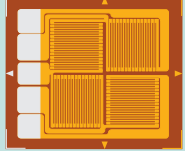
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<p>14</p> 	ECF-350-2GB(**)-O	2.1 x 3.0	10.8 x 4.4	O	not available
	ECE-350-2GB(**)-O	2.1 x 3.0	10.8 x 4.4		
	ECF-350-3GB(**)-O	3.1 x 2.8	12.4 x 4.4		
	ECE-350-3GB(**)-O	3.1 x 2.8	12.4 x 4.4		
	ECF-350-4GB(**)-O	4.0 x 3.7	16.0 x 5.8		
	ECE-350-4GB(**)-O	4.0 x 3.7	16.0 x 5.8		
<p>15</p> 	ECF-350-3GB-L(**)-d-#	3.1 x 3.8	(d+6.7) x 4.8	N7, N6 N5, N4, N3, N2, N1, O, P2	7.0, 8.0, 10.5, 12.0
	EKF-1000-3GB-L(M**)d-#	3.1 x 3.8	(d+6.7) x 4.8		
<p>16</p> 	ECF-350-1.5GB-AL(**)-d-#	1.5 x 2.5	13.8 x 3.8	N3, N2, N1, O, P1, P2	10.5
	ECE-350-1.5GB-AL(**)-d-#	1.5 x 2.5	13.8 x 3.8		
	EKF-350-1.5GB-AL(M**)d-#	1.5 x 3.0	(d+3.0) x 4.2	N3, N2, O, P2	6.8, 8.0
	ECF-350-2GB-AL(**)-d-#	2.0 x 3.0	10.8 x 4.4	N5, N3, N2, O, P2	7.0
	ECE-350-2GB-AL(**)-d-#	2.0 x 3.0	10.8 x 4.4		
	ECF-750-3GB-AL(**)-d-#	3.0 x 3.5	(d+4.8) x 4.3	N3, P2	10.5, 12.0, 14.0
	ECE-750-3GB-AL(**)-d-#	3.0 x 3.5	(d+4.8) x 4.3		
EKF-1000-1.6GB-AL(M**)d-#	1.6 x 3.9	14.0 x 5.2	N5, N3, N2, O, P2	10.5	
<p>17</p> 	EKF-350-2GB-AL(M**)d-#	2.0 x 2.6	(d+3.8) x 3.6	N7, N6 N5, N4, N3, N2, N1, O, P1, P2	7.0, 10.5, 12.0
	ECF-350-3GB-AL(**)-d-#	3.0 x 2.9	(d+4.8) x 4.3		10.5, 12.0
	ECE-350-3GB-AL(**)-d-#				
	EKF-1000-3GB-AL(M**)d-#	2.0 x 3.3	15.8 x 4.5		12.0
	EKF-750-2GB-AL(M**)d-#				
	EKF-1000-2GB-AL(M**)d-#	1.6 x 3.9	14.0 x 5.2		10.5
<p>18</p> 	ECF-500-3GB-BL(**)-d-O	3.0 x 4.1	12.0 x 5.4	O	7.0
	ECF-500-3.4GB-BL(**)-d-O	3.4 x 4.1	13.0 x 5.4		6.0
	EKF-1000-2GB-BL(M**)d-O	2.1 x 4.1	9.5 x 4.6		7.0
	ECF-1000-3GB-BL(**)-d-O	3.0 x 5.5	11.6 x 6.5		7.0
	EKF-2000-3GB-BL(**)-d-O	3.0 x 5.5	11.6 x 6.5		7.0
<p>19</p> 	EKF-350-1.5FG-L(M**)d-#	1.5 x 2.4	14.4 x 6.4	N7, N6, N5, N4, N3, N2, N1, O, P1, P2	10.5

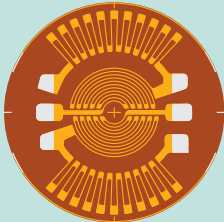
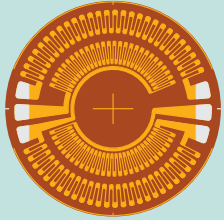
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<p>20</p> 	ECF-350-1.5FG-BL-(**)-d-#	1.5 x 2.8	13.5 x 6.9	N7, N6, N5, N4, N3, N2, N1, O, P1, P2	10.5
	EKF-350-1.5FG-BL-(M**)-d-#	1.5 x 2.3	(d+3.8) x 6.2		6.0, 8.0, 10.5
	EKF-1000-1.5FG-BL-(M**)-d-#	1.5 x 2.8	14.1 x 6.9		10.5
	EKF-1000-2FG-BL-(M**)-d-#	2.1 x 2.8	(d+4.3) x 6.9		6.0, 10.5
	ECF-350-3FG-BL-(M**)-d-#	3.1 x 2.8	15.3 x 6.8		10.5
	EKF-1000-3FG-BL-(M**)-d-#	3.1 x 2.8	15.3 x 6.8		
	EKF-2000-3FG-BL-(M**)-d-#	3.0 x 3.3	14.6 x 7.8		
<p>21</p> 	ECF-350-3FF-L-(**)-d-#	3.1 x 3.2	(d+6.1) x 8.5	N7, N6, N5, N2, O	10.5, 12.0, 14.0
	EKF-1000-3FF-L-(M**)-d-#	3.1 x 3.2	(d+6.1) x 8.5		
<p>22</p> 	ECF-350-1.5FF-AL-(**)-d-#	1.5 x 2.5	13.9 x 6.5	N5, N4, N2	10.5
<p>23</p> 	EKF-350-1.5FF-BL-(M**)-d-#	1.5 x 2.3	(d+3.1) x 6.2	N7, N6, N4, N2, O	6.0, 7.0, 10.5
	ECF-350-2FF-BL-(**)-d-#	2.2 x 2.8	(d+3.7) x 6.5		
	ECF-350-3FF-BL-(**)-d-#	3.1 x 2.8	(d+4.6) x 7.0		
	EKF-1000-3FF-BL-(M**)-d-#	3.1 x 2.7	(d+4.6) x 6.8		
<p>24</p> 	EKF-300-2EB-(**)-O	1.8 x 2.2	8.5 x 7.3	O	2.5
	ECF-350-2EB-(**)-O	2.3 x 2.7	8.6 x 7.1		
	EKF-1000-2EB-(M**)-O	2.3 x 2.7	8.6 x 7.1		
<p>25</p> 	ECF-350-2EC-(**)-O	2.3 x 2.7	8.6 x 7.1	O	2.5
	EKF-350-2EC-(**)-O	1.8 x 2.2	8.4 x 7.3		
	EKF-350-2EC-(M**)-O	1.8 x 2.2	8.4 x 7.3		

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<p>26</p> 	ECF-350-(7)KA-(**)-O	ø 6.0	ø 7		
	ECE-350-(8)KA-(**)-O	ø 7.0	ø 8		
	ECF-350-(10)KA-(**)-O	ø 9.0	ø 10		
	ECE-350-(10)KA-(**)-O	ø 9.0	ø 10		
	ECF-350-(13)KA-(**)-O	ø 12.0	ø 13		
	ECF-350-(15)KA-(**)-O	ø 14.0	ø 15		
	ECE-350-(15)KA-(**)-O	ø 14.0	ø 15		
	ECF-350-(20)KA-(**)-O	ø 19.0	ø 20		
	ECE-350-(20)KA-(**)-O	ø 19.0	ø 20		
	ECF-700-(20)KA-(**)-O	ø 19.0	ø 20	○	not available
	ECE-700-(22)KA-(**)-O	ø 20.0	ø 22		
	ECF-1000-(15)KA-(**)-O	ø 12.0	ø 15		
	EKF-350-(20)KA-(**)-O	ø 19.0	ø 20		
	EKF-420-(7)KA-(**)-O	ø 6.0	ø 7		
	EKF-1000-(10)KA-(**)-O	ø 9.0	ø 10		
	EKF-1000-(13)KA-(**)-O	ø 12.0	ø 13		
	EKF-1000-(15)KA-(**)-O	ø 14.0	ø 15		
EKF-1000-(20)KA-(**)-O	ø 19.0	ø 20			
<p>27</p> 	ECF-350-(20)KC-(**)-O				
	EKF-350-(20)KC-(**)-O	ø 19.0	ø 20	○	not available
	EKF-1000-(20)KC-(**)-O				