



Selection and ordering data	Article No.	Order code
<b>SIPART PS2 electropneumatic positioner in enclosure made of polycarbonate, aluminum and stainless steel</b>	6 DR 5	
	777 - 07777 - 07A7	777
<b>Brief instructions</b>		
German/English/Chinese		A
French/Spanish/Italian		B
<b>Mounted pressure gauge block</b>		
Without		0
<u>Gauge made of plastic IP31</u>		
Block made of aluminum, single-acting G $\frac{1}{4}$ , scaled in MPa and bar		1
Block made of aluminum, double-acting G $\frac{1}{4}$ , scaled in MPa and bar		2
Block made of alum., single-acting $\frac{1}{4}$ -18 NPT, scaled in MPa and psi		3
Block made of alum., double-acting $\frac{1}{4}$ -18 NPT, scaled in MPa and psi		4
<u>Gauge made of steel IP44</u>		
block made of aluminum, single-acting G $\frac{1}{4}$ , scaled in MPa, bar, psi		9 R 1 A
Block made of aluminum, double-acting G $\frac{1}{4}$ , scaled in MPa, bar, psi		9 R 2 A
Block made of aluminum, single-acting $\frac{1}{4}$ -18 NPT, scaled in MPa, bar, psi		9 R 1 B
Block made of aluminum, double-acting $\frac{1}{4}$ -18 NPT, scaled in MPa, bar, psi		9 R 2 B
<u>Gauge made of stainless steel 316 IP54</u>		
Block made of stainl. steel 316, single-acting G $\frac{1}{4}$ , scaled in MPa, bar, psi		9 R 1 C
Block made of stainl. steel 316, double-acting G $\frac{1}{4}$ , scaled in MPa, bar, psi		9 R 2 C
Block made of stainl. steel 316, single-acting $\frac{1}{4}$ -18 NPT, scaled in MPa, bar, psi		9 R 1 D
Block made of stainless steel 316, double-acting $\frac{1}{4}$ -18 NPT, scaled in MPa, bar, psi		9 R 2 D
<b>Mounted booster</b>		
Single-acting, aluminum, G $\frac{1}{2}$		9 R 1 J
Double-acting, aluminum, G $\frac{1}{2}$		9 R 2 J
Single-acting, aluminum, $\frac{1}{2}$ NPT		9 R 1 K
Double-acting, aluminum, $\frac{1}{2}$ NPT		9 R 2 K

4) Not for protection type "non-sparking"

Selection and ordering data	Article No.	Order code	Selection and ordering data	Article No.	Order code
<b>SIPART PS2 electropneumatic positioner in enclosure made of polycarbonate, aluminum and stainless steel</b>	6 DR 5	777 - 0 7777 - 0 7A7 777	<b>SIPART PS2 electropneumatic positioner in enclosure made of polycarbonate, aluminum and stainless steel</b>	6 DR 5	777 - 0 7777 - 0 7A7 777
<b>Further designs</b> Add "-Z" to Article No. and specify Order Code.		Order code	<b>TAG plate made of stainless steel, 3-line</b> Text line 1: Plain text from Y17 Text line 2: Plain text from Y15 Text line 3: Plain text from Y16	<b>A20</b>	
<b>Version with stainless steel sound absorbers</b> Standard with stainless steel enclosure	<b>A40</b>		<b>Measuring point description</b> Max. 16 characters for HART, max. 32 characters for PROFIBUS PA, FOUNDATION Fieldbus and 4 ... 20 mA, specify in plain text: <b>Y15: .....</b>	<b>Y15</b>	
<b>Functional safety (SIL 2) only for 6DR5.1. (single-acting positioners)</b> Device suitable for use according to IEC 61508 and IEC 61511	<b>C20</b>		<b>Measuring point text</b> Max. 24 characters for HART, max. 32 characters for PROFIBUS PA, FOUNDATION Fieldbus and 4 ... 20 mA, specify in plain text: <b>Y16: .....</b>	<b>Y16</b>	
<b>M12 device plug (D coding)</b> For the following option modules:			<b>Measuring point number (TAG No.)</b> Max. 32 characters, specify in plain text: <b>Y17: .....</b>	<b>Y17</b>	
• for position feedback module	<b>D53</b>		<b>Preset bus address</b> Specify in plain text: <b>Y25: .....</b> (only for 6DR55.. and 6DR56..)	<b>Y25</b>	
• for position detection system	<b>D54</b>		<b>Customer-specific parameter setting</b> Specify in plain text: <b>Y30: .....</b>	<b>Y30</b>	
• for alarm module	<b>D55</b>				
• for SIA module	<b>D56</b>				
• for limit contact module	<b>D57</b>				
Can only be ordered in connection with optional module					
<b>Fail in Place</b>	<b>F01</b>				
Holding function on failure of auxiliary electrical power and/or pneumatic failure					
<b>Optimized control behavior for small drives<sup>1)</sup></b>	<b>K10</b>				
<b>Additional position detection by means of a potentiometer</b>	<b>K11</b>				
<b>Pneumatic terminal strip made of stainless steel 316</b>	<b>K18</b>				
<b>OPOS adapter with interface VDI/VDE 3847</b> Blanketing, only for single-acting, not for flameproof enclosures	<b>K20</b>				
Permitted ambient temperature during operation -40 ... 80 °C (-40 ... +176 °F) for 6DR5.11, 6DR5..2, 6DR5..3 (without inspection window)	<b>M40</b>				
<b>Marine approval</b>					
GL (Germanischer Lloyd)	<b>S10</b>				
LR (Lloyds Register)	<b>S11</b>				
BV (Bureau Veritas)	<b>S12</b>				
DNV (Det Norske Veritas)	<b>S13</b>				
ABS (American Bureau of Shipping)	<b>S14</b>				
KR of shipping (Korean Register of Shipping)	<b>S15</b>				
CCS (China Classification Society)	<b>S16</b>				

<sup>1)</sup> Not for following options: 6DR53..; 6DR5..1 and 6DR5..2; C20.



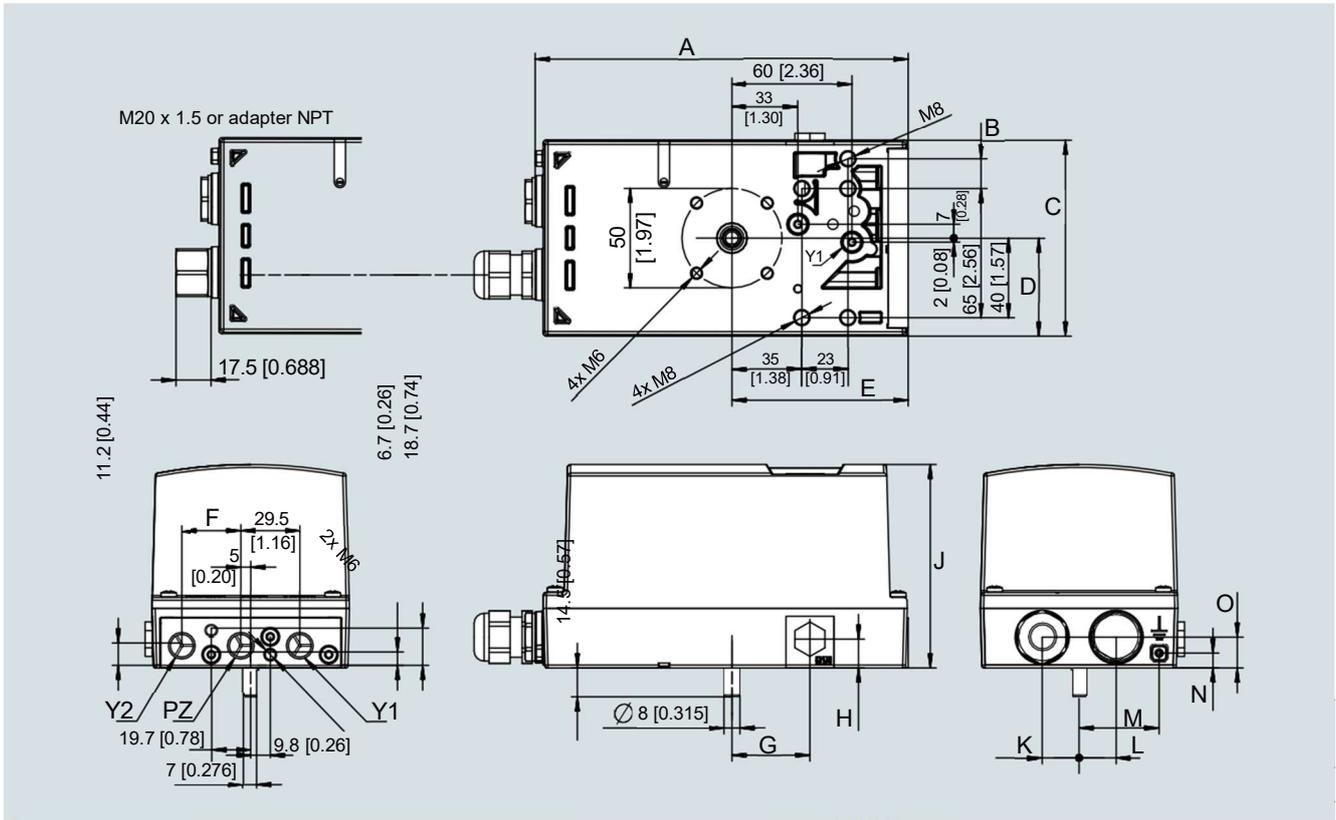
Selection and ordering data	Article No.	Order code
<b>SIPART PS2 electropneumatic positioner, in flameproof aluminum enclosure, without cable gland</b>	6 DR 5 775 - 0 E 777 - 0 7 A 7 777	
Click on the Article No. for the online configuration in the PIA Life Cycle Portal.		
<b>Version</b>		
2-wire (4 to 20 mA)		
• Without HART	0	
• With HART	1	
2-, 3-, 4-wire (0/4 to 20 mA)		
• With HART	2	
• Without HART	3	
PROFIBUS PA connection	5	
FOUNDATION Fieldbus connection	6	
<b>For actuator</b>		
Single-acting	1	
Double-acting	2	
<b>Connection thread electrical/pneumatic</b>		
M20 x 1.5 / G $\frac{1}{4}$	G	
$\frac{1}{2}$ -14 NPT / $\frac{1}{4}$ -18 NPT	N	
M20 x 1.5 / $\frac{1}{4}$ -18 NPT	M	
$\frac{1}{2}$ -14 NPT / G $\frac{1}{4}$	P	
M25x1.5 / G $\frac{1}{4}$	Q	
<b>Limit monitor</b>		
Built-in		
Without	0	
Alarm module; electronic (6DR4004-8A)	1	
Internal NCS module (6DR4004-5L.), internal position detection by means of a potentiometer is not included and can be ordered through -Z K11 if needed.	9	L 1 A
<b>Option modules</b>		
Built-in		
Without	0	
Position feedback module for position feedback signal (4 ... 20 mA) (6DR4004-8J)	1	
EMC filter module for external position sensor, internal position detection by means of a potentiometer is not included and can be ordered through -Z K11 if needed.	2	
Position feedback module and EMC filter module for external position sensor, internal position detection by means of a potentiometer is not included and can be ordered through -Z K11 if needed.	3	
<b>Brief instructions</b>		
German/English/Chinese		A
French/Spanish/Italian		B

Selection and ordering data	Article No.	Order code
<b>SIPART PS2 electropneumatic positioner, in flameproof aluminum enclosure, without cable gland</b>	6 DR 5 775 - 0 E 777 - 0 7 A 7 777	
<b>Mounted pressure gauge block</b>		
Without		0
<b>Gauge made of plastic IP31</b>		
Block made of aluminum, single-acting G $\frac{1}{4}$ , scaled in MPa and bar		1
Block made of aluminum, double-acting G $\frac{1}{4}$ , scaled in MPa and bar		2
Block made of aluminum, single-acting $\frac{1}{4}$ -18 NPT, scaled in MPa and ps		3
Block made of aluminum, double-acting $\frac{1}{4}$ -18 NPT, scaled in MPa and psi		4
<b>Gauge made of steel IP44</b>		
Block made of aluminum, single-acting G $\frac{1}{4}$ , scaled in MPa, bar, psi		9 R 1 A
Block made of aluminum, double-acting G $\frac{1}{4}$ , scaled in MPa, bar, psi		9 R 2 A
Block made of aluminum, single-acting $\frac{1}{4}$ -18 NPT, scaled in MPa, bar, psi		9 R 1 B
Block made of aluminum, double-acting $\frac{1}{4}$ -18 NPT, scaled in MPa, bar, psi		9 R 2 B
<b>Gauge made of stainless steel 316 IP54</b>		
Block made of stainless steel 316, single-acting G $\frac{1}{4}$ , scaled in MPa, bar, psi		9 R 1 C
Block made of stainless steel 316, double-acting G $\frac{1}{4}$ , scaled in MPa, bar, psi		9 R 2 C
Block made of stainless steel 316, single-acting $\frac{1}{4}$ -18 NPT, scaled in MPa, bar, psi		9 R 1 D
Block made of stainless steel 316, double-acting $\frac{1}{4}$ -18 NPT, scaled in MPa, bar, psi		9 R 2 D
<b>Mounted booster</b>		
Single-acting, aluminum, G $\frac{1}{2}$		9 R 1 P
Double-acting, aluminum, G $\frac{1}{2}$		9 R 2 P
Single-acting, aluminum, $\frac{1}{2}$ NPT		9 R 1 Q
Double-acting, aluminum, $\frac{1}{2}$ NPT		9 R 2 Q

Selection and ordering data	Article No.	Order code
<b>SIPART PS2 electropneumatic positioner, in flameproof aluminum enclosure, without cable gland</b>	6 DR 5 77 5 - 0 E 777 - 0 7 A 7 777	
<b>Further designs</b> Add "-Z" to Article No. and specify Order Code.	Order code	
<b>TAG plate made of stainless steel, 3-line</b> Text line 1: Plain text from Y17 Text line 2: Plain text from Y15 Text line 3: Plain text from Y16	<b>A20</b>	
<b>Functional safety (SIL 2) only for 6DR5.1. (single-acting positioners)</b> Device suitable for use according to IEC 61508 and IEC 61511	<b>C20</b>	
<b>Fail in Place</b> Holding function in case of auxiliary electrical power failure	<b>F01</b>	
<b>Optimized control behavior for small drives<sup>1)</sup></b>	<b>K10</b>	
<b>Additional position detection by means of a potentiometer</b>	<b>K11</b>	
<b>Pneumatic terminal strip made of stainless steel 316</b>	<b>K18</b>	
<b>Permitted ambient temperature during operation -40 ... 80 °C (-40 ... +176 °F)</b>	<b>M40</b>	
<b>Measuring point description</b> Max. 16 characters for HART, max. 32 characters for PROFIBUS PA and FOUNDATION Fieldbus, specify in plain text: <b>Y15:</b> .....	<b>Y15</b>	
<b>Measuring point text</b> Max. 24 characters for HART, max. 32 characters for PROFIBUS PA and FOUNDATION Fieldbus, specify in plain text: <b>Y16:</b> .....	<b>Y16</b>	
<b>Measuring point number (TAG No.)</b> Max. 32 characters, specify in plain text: <b>Y17:</b> .....	<b>Y17</b>	
<b>Preset bus address</b> Specify in plain text: <b>Y25:</b> ..... only for 6DR55.. and 6DR56..)	<b>Y25</b>	

<sup>1)</sup> Not for following options: 6DR53.; 6DR5..1 and 6DR5..2; C20.

### Dimensional drawings



C	95 (3.74)	84 (3.31)	99 (3.90)	98.6 (3.88)
D	48 (1.89)	34.5 (1.36)	49.5 (1.95)	48.6 (1.91)
E	88.5 (3.48)	90.5 (3.56)	88.5 (3.48)	88.8 (3.50)
F*)	29.5 (1.16)	-	29.5 (1.16)	29.5 (1.16)
G	39 (1.54)	44 (1.73)	39 (1.54)	39 (1.54)
H	14.5 (0.57)	16 (0.63)	16 (0.63)	14.5 (0.57)
J	96.6 (3.80)	96.6 (3.80)	98.5 (3.88)	103 (4.06)
K	18.5 (0.73)	22 (0.87)	18.5 (0.73)	18.5 (0.73)
L	18.5 (0.73)	7 (0.23)	18.5 (0.73)	18.5 (0.73)
M	-	26.5	41.5	40
N	-	7.5	7.5	7.5
O	14.5 (0.57)	14.5 (0.57)	14.5 (0.57)	15.5 (0.61)

\* Dimension applies only to double-acting drives

6DR5..0 Polycarbonate enclosure; dimensions with pneumatic connection G $\frac{1}{4}$  or  $\frac{1}{4}$  NPT

6DR5..1 Aluminum enclosure, single-acting

6DR5..2 Stainless steel enclosure, without inspection window

6DR5..3 Aluminum enclosure, single-acting and double-acting; dimensions with pneumatic connection G $\frac{1}{4}$  or  $\frac{1}{4}$  NPT



