Pressure transmitters

for applications with advanced requirements (Advanced) SITRANS P DS III

Accessories/Spare Parts

| Selection and Ord   | ering data  |   | Artic | ole No.          |
|---|---|---|-------|------------------|
| Replacement mea for SITRANS P DS  | suring cell for pressure<br>III   | 7 |       | F 4 9 9 0 -      |
|   | cle No. for the online configura  | - |       |                  |
|   | ng Measuring cell cleaning  |   |       |                  |
| Silicone oil  | Normal  |   | 1     |                  |
| Inert liquid  | grease-free to cleanliness level 2  |   | 3     |                  |
| Measured span (m  | in max.)  |   |       |                  |
| 8.3 250 mbar<br>0.01 1 bar<br>0.04 4 bar<br>0.16 16 bar<br>0.63 63 bar<br>1.6 160 bar<br>4.0 400 bar<br>7.0 700 bar<br>Wetted parts mate<br>Seal diaphragm<br>Stainless steel<br>Hastelloy<br>Hastelloy | (0.12 3.6 psi)<br>(0.15 14.5 psi)<br>(0.6 58 psi)<br>(2.32 232 psi)<br>(9.14 914 psi)<br>(23.2 2 320 psi)<br>(58.0 5 802 psi)<br>(102.0 10 153 psi) | _ | Ē     | A<br>B           |
| Process connection Connection shand Female thread ½- Oval flange made max. span 160 ba- Mounting thread IEC 61518/DIN Mounting thread   | k G½B to EN 837-1<br>-14 NPT<br>e of stainless steel,<br>ar (2320 psi)  |   |       | 0<br>1<br>2<br>3 |
| Further designs   |   |   | Orde  | er code          |
| 9   | Article No. and specify   |   |       |                  |
| Inspection certific<br>to EN 10204-3.1  | ate   |   | C12   | !                |

|   | uring cell for absolute<br>NS P DS III (from the  | 7 |             |                  | 992-<br>0-0DB |
|---|---|---|-------------|------------------|---------------|
| Click on the Articl tion in the PIA Life  | e No. for the online configura-<br>e Cycle Portal.  | - |             |                  |               |
| Measuring cell fillin<br>Silicone oil<br>Inert liquid   | g Measuring cell cleaning<br>Normal<br>grease-free to<br>cleanliness level 2                            |   | 1 3         |                  |               |
| Measured span (mi<br>8.3 250 mbar a<br>43 1300 mbar a<br>0.16 5 bar a<br>1 30 bar a   | n max.)<br>(0.12 3.63 psi a)<br>(0.62 18.86 psi a)<br>(2.32 72.5 psi a)<br>(14.5 435 psi a)             |   | I<br>I<br>( | =<br>3           |               |
| Wetted parts mater<br>Seal diaphragm<br>Stainless steel<br>Hastelloy<br>Hastelloy   | Process connection Stainless steel Stainless steel Hastelloy  | _ |             | A<br>B<br>C      |               |
| Process connection Connection shank Female thread ½-1 Oval flange made omax. span 160 bar Mounting thread IEC 61518/DIN E Mounting thread | G½B to EN 837-1<br>4 NPT<br>of stainless steel,<br>(2320 psi)<br>7/ <sub>16</sub> -20 UNF to<br>N 61518 |   |             | 0<br>1<br>2<br>3 |               |
| Further designs Please add "-Z" to Ar Order code.   | ticle No. and specify   |   | Or          | der              | code          |
| Inspection certifica  | te  |   | C1          | 2                |               |

Pressure transmitters for applications with advanced requirements (Advanced) SITRANS P DS III

Accessories/Spare Parts

| Daniaaamantoo   | data  | Article No. | Selection and Ordering data   | Article No. |
|---|---|-------------|---|-------------|
| sure (from the differentia<br>SITRANS P DS III with HAI   | RT, DS III with PROFIBUS  | 7MF4993-    | pressure and PN 32/160 (MAWP 464/2320 psi) for<br>SITRANS P DS III with HART, DS III with PROFIBUS  | 7 MF 4 9 9  |
| PA and DS III with FOUND  Click on the Article No.  | . for the online configura-   |             | PA and DS III with FOUNDATION Fieldbus series  Click on the Article No. for the online configura-   |             |
| tion in the PIA Life Cyc  | ele Portal.   |             | tion in the PIA Life Cycle Portal.  Measuring cell filling Measuring cell cleaning  |             |
| Measuring cell filling Me<br>Silicone oil No  | ormal   | 1           | Silicone oil Normal   | 1           |
|   | ease-free to<br>eanliness level 2                                       | 3           | Inert liquid grease-free to cleanliness level 2   | 3           |
| Measured span (min  | max.)   |             | Measured span (min max.) PN 32 (MAWP 464 psi)   |             |
| ,   | .12 3.63 psi a)   | D           | 1 20 mbar <sup>1)</sup> (0.4 8 inH <sub>2</sub> O)  | В           |
| •   | .62 18.86 psi a)  | F           | PN 160 (MAWP 2320 psi)  |             |
| ,   | .32 72.5 psi a)   | G           | 1 60 mbar (0.4 24 inH <sub>2</sub> O)   | С           |
| •   | 4.5 435 psi a)  | Н           | 2.5 250 mbar (1 100 inH <sub>2</sub> O)   | D           |
| 5.3 100 bar a (76   | 6.9 1450 psi a)   | KE          | 6 600 mbar (2.4 240 inH <sub>2</sub> O)   | E           |
| Wetted parts materials  |   |             | 16 1600 mbar (6.4 642 inH <sub>2</sub> O)   | F           |
| Seal diaphragm Pa   | irts of measuring cell  |             | 50 5000 mbar (20 2000 inH <sub>2</sub> O)   | G           |
| Stainless steel Sta   | ainless steel   |             | ` /   | Н           |
|   | ainless steel   | A<br>B      |   |             |
| *   | arniess steer<br>astelloy   | C           | Wetted parts materials (stainless steel process flanges)  |             |
| •   | ntalum  | E           |   |             |
|   | onel  | H           | Seal diaphragm Parts of measuring cell  |             |
| Gold Go   |   | - 6         | Stainless steel Stainless steel   | A           |
|   | Ju .  |             | Hastelloy Stainless steel<br>Hastelloy Hastelloy  | B           |
| Process connection  |   |             | Tantalum <sup>2)</sup> Tantalum   | Ē           |
| Female thread 1/4-18 NPT  | •   |             | Monel <sup>2)</sup> Monel   | H           |
| <ul> <li>Sealing screw opposite</li> </ul>  | •   |             | Gold <sup>2)</sup> Gold   | Ë           |
| <ul> <li>Mounting thread M10 t</li> </ul>   |   | 0           | Process connection  |             |
| <ul> <li>Mounting thread <sup>7</sup>/<sub>16</sub>-2</li> <li>IEC 61518/DIN EN 615</li> </ul>  | 20 UNF to   | 2           | Female thread 1/4-18 NPT with flange connection   |             |
|   |   |             | Sealing screw opposite process connection   |             |
| <ul> <li>Vent on side of process</li> </ul>   |   |             | - Mounting thread M10 to DIN 19213  | 0           |
| - Mounting thread M10 t   |   | 4           | <ul> <li>Mounting thread <sup>7</sup>/<sub>16</sub>-20 UNF to</li> </ul>  | 2           |
| - Mounting thread <sup>7</sup> / <sub>16</sub> -2   |   | 6           | IEC 61518/DIN EN 61518  |             |
| IEC 61518/DIN EN 615  | 518   |             | Vent on side of process flange  |             |
| Non-wetted parts materi   | ials  |             | <ul> <li>Mounting thread M10 to DIN 19213</li> <li>Mounting thread <sup>7</sup>/<sub>16</sub>-20 UNF to</li> </ul>                                | 4           |
| <ul> <li>Stainless steel process f</li> </ul>   | flange screws   | 2           | IEC 61518/DIN EN 61518  | 0           |
| Further designs   |   | Order code  | Non-wetted parts materials  | -           |
| Please add "-Z" to Article I  | No. and specify   |             | Stainless steel process flange screws   | 2           |
| Order code.   |   |             | Further designs   | Order code  |
| O-rings for process flang   | ges   |             | Please add "-Z" to Article No. and specify Order code.  |             |
| (instead of FPM (Viton))  |   | ***         | O-rings for process flanges   |             |
| PTFE (Teflon)   | 1.6 6 15  | A20         | (instead of FPM (Viton))  |             |
| • FEP (with silicone core,  |   | A21         | • PTFE (Teflon)   | A20         |
| • FFPM (Kalrez, for measu   |   | A22         | • FEP (with silicone core, approved for food)   | A21         |
| -15 100 °C (5 212 °f<br>• NBR (Buna N)  | 1 //  | A23         | • FFPM (Kalrez, for measured medium temperatures -15 100 °C (5 212 °F))   | A22         |
|   |   |             | • NBR (Buna N)  | A23         |
| Inspection certificate  |   | C12         | Inspection certificate  | C12         |
| to EN 10204-3.1   | <u> </u>  | D40         | to EN 10204-3.1   | CIZ         |
| Process connection G½ Remote seal flanges   | D   | D16<br>D20  | Remote seal flanges<br>(not together with K01, K02 and K04)   | D20         |
| (not together with K01, K0  | 02 and K04)   | 210         | Vent on side for gas measurements   | H02         |
| Vent on side for gas mea  | asurements  | H02         | Stainless steel process flanges for vertical  | H03         |
| Process flanges   |   |             | differential pressure lines<br>(not together with K01, K02 and K04)   |             |
|   |   | K00         | <u>·                                      </u>  |             |
| <ul><li>without</li></ul>   |   |             | Process flanges   | 1/00        |
|   | de of   |             | • without   | K00         |
|   | de of   | K01         |   |             |
| <ul> <li>with process flange mad</li> </ul>   | de of   | K01<br>K02  | with process flange made of   |             |
| <ul><li>with process flange mad</li><li>Hastelloy</li></ul>   |   |             | - Hastelloy   | K01         |
| <ul> <li>with process flange made</li> <li>Hastelloy</li> <li>Monel</li> <li>Stainless steel with PV max. PN 10 (MAWP 14)</li> </ul>  | /DF insert<br>45 psi)   | K02         | - Hastelloy<br>- Monel  | K02         |
| <ul> <li>with process flange made</li> <li>Hastelloy</li> <li>Monel</li> <li>Stainless steel with PV max. PN 10 (MAWP 14 max.temperature of medians)</li> </ul>                         | /DF insert<br>45 psi)<br>edium 90°C (194°F)                             | K02         | <ul><li>Hastelloy</li><li>Monel</li><li>Stainless steel with PVDF insert, max. PN 10</li></ul>  |             |
| <ul> <li>with process flange made.</li> <li>Hastelloy</li> <li>Monel</li> <li>Stainless steel with PV max. PN 10 (MAWP 14 max.temperature of me For ½-14 NPT inner process.)</li> </ul> | DF insert<br>15 psi)<br>edium 90 °C (194 °F)<br>ocess connection on the | K02         | <ul> <li>Hastelloy</li> <li>Monel</li> <li>Stainless steel with PVDF insert, max. PN 10<br/>(MAWP 145 psi), max. temperature of medium</li> </ul> | K02         |
| - Monel - Stainless steel with PV max. PN 10 (MAWP 14 max.temperature of me For ½-14 NPT inner productions)   | /DF insert<br>45 psi)<br>edium 90°C (194°F)                             | K02         | <ul><li>Hastelloy</li><li>Monel</li><li>Stainless steel with PVDF insert, max. PN 10</li></ul>  | K02         |

Not suitable for connection of remote seal
 Only together with max. spans 250, 1600, 5000 and 30000 mbar (100 inH<sub>2</sub>O, 642 inH<sub>2</sub>O, 2000 inH<sub>2</sub>O and 435 psi).

Pressure transmitters

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Accessories/Spare Parts

| Selection and Ordering   | g data   | Artic  | le N  | lo.       |
|--|--|--------|-------|-----------|
| Replacement measuring cell for differential  |  |        |       | 95-       |
| pressure and PN 420 (<br>SITRANS P DS III with F   | MAWP 6092 psi) for IART, DS III with PROFIBUS                |        |       | - 0 D C 0 |
|  | NDATION Fieldbus series                                      |        |       |           |
| Click on the Article N<br>tion in the PIA Life Cy  | lo. for the online configura-<br>ycle Portal.                |        |       |           |
| Measuring cell filling   | Measuring cell cleaning                                      |        |       |           |
| Silicone oil   | Normal   | _ 1    |       |           |
| Measured span (min   | •  |        |       |           |
| 2.5 250 mbar<br>6 600 mbar   | (1 100 inH <sub>2</sub> O)                                   | D      |       |           |
| 16 1600 mbar   | (2.4 240 inH <sub>2</sub> O)<br>(6.4 642 inH <sub>2</sub> O) | E<br>F |       |           |
| 50 5000 mbar   | (20 2000 inH <sub>2</sub> O)                                 | G      |       |           |
| 0.3 30 bar   | (4.35 435 psi)   | Н      |       |           |
| Wetted parts materials   |  |        |       |           |
| (stainless steel process   |  |        |       |           |
| Seal diaphragm   | Parts of measuring cell                                      |        |       |           |
| Stainless steel  | Stainless steel  | ,      | ١     |           |
| Hastelloy  | Stainless steel  | E      | 3     |           |
| Gold <sup>1)</sup>   | Gold   |        |       |           |
| Process connection   |  |        |       |           |
| Female thread 1/4-18 NP connection   | T with flange  |        |       |           |
| Sealing screw opposit  | te process connection  |        |       |           |
| - Mounting thread M1   | •  |        | 1     |           |
| <ul> <li>Mounting thread <sup>7</sup>/<sub>16</sub></li> </ul>                             |  |        | 3     |           |
| IEC 61518/DIN EN 6   |  |        |       |           |
| • Vent on side of proces   |  |        |       |           |
| - Mounting thread M1   | 2 to DIN 19213   |        | 5     |           |
| <ul> <li>Mounting thread <sup>7</sup>/<sub>16</sub></li> <li>IEC 61518/DIN EN 6</li> </ul> |  |        | 7     |           |
| Non-wetted parts mate  |  | _      | Н     |           |
| Stainless steel proces   |  |        | 2     |           |
| Further designs  |  | Orde   | er co | ode       |
| Please add "-Z" to Articl code.  | e No. and specify Order                                      |        |       |           |
| O-rings for process fla  | inges  |        |       |           |
| (instead of FPM (Viton))   |  |        |       |           |
| <ul> <li>PTFE (Teflon)</li> </ul>  |  | A20    |       |           |
| • FEP (with silicone core  |  | A21    |       |           |
| <ul> <li>FFPM (Kalrez, for measeless)</li> <li>-15 100 °C (5 212</li> </ul>                | sured medium temperatures ( °F))                             | A22    |       |           |
| • NBR (Buna N)   | "  | A23    |       |           |
| Inspection certificate   |  | C12    |       |           |
| to EN 10204-3.1  |  |        |       |           |
| Stainless steel proces differential pressure li  |  | H03    |       |           |
| without process flange   |  | K00    |       |           |
|  |  |        |       |           |

 $<sup>^{1)}</sup>$  Not together with max. span 600 mbar (240 in $\mathrm{H}_2\mathrm{O}$ )

Pressure transmitters for applications with advanced requirements (Advanced) SITRANS P DS III

**Accessories/Spare Parts** 

| Selection and Ordering data   | Article No.                | Selection and Ordering data   | Article No.                |
|---|----------------------------|---|----------------------------|
| Spare parts/Accessories   |                            | Digital indicator   | 7MF4997-1BR                |
| Nounting bracket and fastening parts  |                            | <ul> <li>Including mounting material for SITRANS P<br/>DS III with HART, DS III with PROFIBUS PA and</li> </ul> |                            |
| or pressure transmitters  |                            | DS III with FOUNDATION Fieldbus   |                            |
| SITRANS P DS III with HART, DS III with   |                            | Measuring point label   | _                          |
| PROFIBUS PA and DS III with FOUNDATION  |                            | without inscription (5 units)   | 7MF4997-1CA                |
| Fieldbus (7MF403C.) For absolute pressure transmitters  |                            | • Printed (1 unit)  | 7MF4997-1CB-2              |
| SITRANS P DS III with HART, DS III with   |                            | Data according to Y01 or Y02, Y15, Y16 and  | Y:                         |
| PROFIBUS PA and DS III with FOUNDATION  |                            | Y99 (see "Pressure transmitters")   |                            |
| Fieldbus (7MF423C.)   | 784E4007 4 8 D             | Mounting screws   |                            |
| made of steel made of stainless steel 304/1.4301  | 7MF4997-1AB<br>7MF4997-1AH | For measuring point label, grounding and con-   | 7MF4997-1CD                |
| made of stainless steel 316L/1.4404   | 7MF4997-1AP                | nection terminals or for display  |                            |
|   | - 11111 1007 1711          | (50 units)  | _                          |
| Mounting bracket and fastening parts or pressure transmitters                                       |                            | Sealing screws  |                            |
| SITRANS P DS III with HART, DS III with   |                            | (1 set = 2 units) for process flange • made of stainless steel  | 7MF4997-1CG                |
| PROFIBUS PA and DS III with FOUNDATION  |                            | made of staffless steel     made of Hastelloy   | 7MF4997-1CH                |
| Fieldbus (7MF403A.,B.,D. andF.) For absolute pressure transmitters                                  |                            |   |                            |
| SITRANS P DS III with HART, DS III with   |                            | Sealing screws with vent valve Complete (1 set = 2 units)   |                            |
| PROFIBUS PA and DS III with FOUNDATION  |                            | made of stainless steel   | 7MF4997-1CP                |
| Fieldbus 7MF423A.,B.,D. andF.)  | 7ME4007 4 6 0              | made of Hastelloy   | 7MF4997-1CQ                |
| made of steel made of stainless steel 304/1.4301  | 7MF4997-1AC<br>7MF4997-1AJ | Application electronics   |                            |
| • made of stainless steel 304/1.4301<br>• made of stainless steel 316L/1.4404                       | 7MF4997-1AQ<br>7MF4997-1AQ | • for SITRANS P DS III with HART  | 7MF4997-1DK                |
|   | 7 WII 4557-1AQ             | • for SITRANS P DS III with PROFIBUS PA   | 7MF4997-1DL                |
| Mounting and fastening brackets   |                            | <ul> <li>for SITRANS P DS III with FOUNDATION</li> </ul>  | 7MF4997-1DM                |
| For differential pressure transmitters with lange thread M10  |                            | Fieldbus  |                            |
| SITRANS P DS III with HART, DS III with   |                            | Connection board  |                            |
| PROFIBUS PA and DS III with FOUNDATION  |                            | • for SITRANS P DS III  | 7MF4997-1DN                |
| Fieldbus (7MF433 and 7MF443)  • made of steel   | 7MF4997-1AD                | for SITRANS P DS III PROFIBUS PA and     FOUNDATION Fieldburg   | 7MF4997-1DP                |
| • made of stainless steel 304/1.4301  | 7MF4997-1AD<br>7MF4997-1AK | FOUNDATION Fieldbus   | _                          |
| • made of stainless steel 316L/1.4404   | 7MF4997-1AR                | O-rings for process flanges made of:  |                            |
| Mounting and fastening brackets   | _                          | • FPM (Viton)   | 7MF4997-2DA                |
| For differential pressure transmitters with   |                            | <ul><li>PTFE (Teflon)</li><li>FEP (with silicone core, approved for food)</li></ul>                             | 7MF4997-2DB<br>7MF4997-2DC |
| lange thread M12  |                            | • FFPM (Kalrez)   | 7MF4997-2DD                |
| SITRANS P DS III with HART, DS III with   |                            | • NBR (Buna N)  | 7MF4997-2DE                |
| PROFIBUS PA and DS III with FOUNDATION Fieldbus (7MF453)  |                            | Sealing ring for process connection   | see "Fittings"             |
| made of steel   | 7MF4997-1AE                |   | See Tittings               |
| <ul> <li>made of stainless steel 304/1.4301</li> </ul>  | 7MF4997-1AL                | Weldable sockets for PMC connection   | 7MF4997-2HA                |
| <ul> <li>made of stainless steel 316L/1.4404</li> </ul>   | 7MF4997-1AS                | PMC Style Standard: Thread 1½"  PMC Style Minibolt: front-flush 1"  | 7MF4997-2HB                |
| Mounting and fastening brackets   |                            |   | - IIII 4537-211D           |
| For differential and absolute pressure transmit-  |                            | Gaskets for PMC connection (packing unit = 5 units)   |                            |
| ers with flange thread 7/16 -20 UNF   |                            | PTFE seal for PMC Style Standard:   | 7MF4997-2HC                |
| SITRANS P DS III with HART, DS III with PROFIBUS PA and DS III with FOUNDATION                      |                            | Thread 11/2"  |                            |
| Fieldbus  |                            | Gasket made of Viton for PMC Style Minibolt:     front flush 1"   | 7MF4997-2HD                |
| 7MF433, 7MF443 and 7MF453)  | 71454007 4 4 5             | front-flush 1"  |                            |
| made of steel   | 7MF4997-1AF<br>7MF4997-1AM | Weldable socket for TG52/50 and TG52/150 connection   |                            |
| <ul> <li>made of stainless steel 304/1.4301</li> <li>made of stainless steel 316L/1.4404</li> </ul> | 7MF4997-1AM<br>7MF4997-1AT | • TG52/50 connection  | 7MF4997-2HE                |
| · · · · · · · · · · · · · · · · · · ·   | 7 WII 4337-1A1             | • TG52/150 connection   | 7MF4997-2HF                |
| Cover   |                            | Seals for TG 52/50 and TG 52/150 made of  | 7MF4997-2HG                |
| Made of die-cast aluminum, including gasket,  |                            | silicone (FDA compliant)  | 7 WII 4337-21 IG           |
| or SITRANS P DS III with HART, DS III with PROFIBUS PA and DS III with FOUNDATION                   |                            | Seals for flange connection with front-flush  |                            |
| Fieldbus.   |                            | diaphragm   |                            |
| Compatible for Ex and non-Ex transmitters   |                            | M;aterial FKM (Viton); temperature range:   |                            |
| • without window  | 7MF4997-1BB                | -20 +200 °C (-4 +392 °F), 10 units  | 7ME4007 0111               |
| with window   | 7MF4997-1BE                | • DN 25, PN 40 (M11)<br>• 1", class 150 (M40)   | 7MF4997-2HH<br>7MF4997-2HK |
| Cover   |                            | - 1, Class 150 (IVI+O)  | 7 IVII 4997-211K           |
| Made of stainless steel, including gasket,  |                            |   |                            |
| for SITRANS P DS III with HART, DS III with PROFIBUS PA and DS III with FOUNDATION                  |                            |   |                            |
| Fieldbus.   |                            |   |                            |

7MF4997-1BC

7MF4997-1BF

• without window

• with window

Compatible for Ex and non-Ex transmitters

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## Accessories/Spare Parts

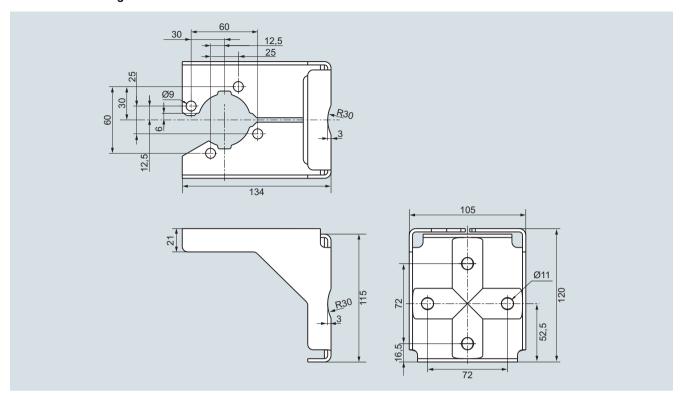
| Selection and Ordering data  | Article No. |
|--|-------------|
| Documentation  |             |
| The entire documentation is available for download free-of-charge in various languages at: http://www.siemens.com/processinstrumentation/documentation |             |
| Compact operating instructions<br>SITRANS P DS III/P410<br>• English, German, Spanish, French, Italian,<br>Dutch                                       | A5E03434626 |
| Certificates (order only via SAP) instead of Internet download   |             |
| <ul><li>hard copy (to order)</li></ul>   | A5E03252406 |
| • on DVD (to order)  | A5E03252407 |
| HART modem with USB interface  | 7MF4997-1DB |

Power supply units see Chap. 7 "Supplementary Components".

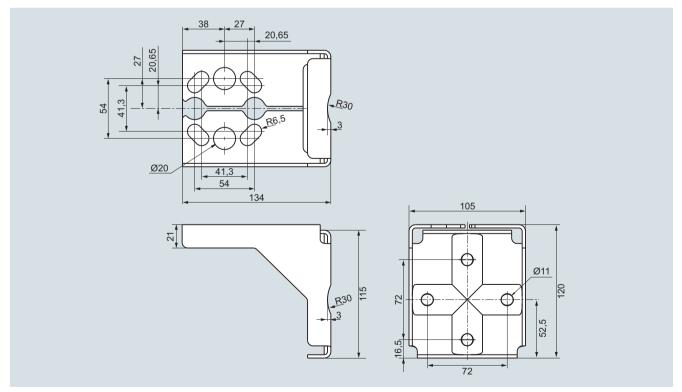
Pressure transmitters for applications with advanced requirements (Advanced) SITRANS P DS III

**Accessories/Spare Parts** 

## Dimensional drawings



Mounting bracket for SITRANS P DS III, SITRANS P410 gauge and absolute pressure-transmitters, dimensions in mm mounting bracket material: Sheet-steel Mat. No. 1.0330, chrome-plated, or stainless steel Mat. No. 1.4301 (304)



Mounting bracket for SITRANS P DS III and SITRANS P410 differential pressure transmitter, dimensions in mm mounting bracket material: Sheet-steel Mat. No. 1.0330, chrome-plated, or stainless steel Mat. No. 1.4301 (304)

Pressure transmitters

for applications with advanced requirements (Advanced) SITRANS P DS III

#### Factory-mounting of valve manifolds on transmitters

#### Overview

SITRANS P transmitters

- DS III for relative and absolute pressure (both designs) and
- DS III for differential pressure

can be delivered factory-fitted with the following valve manifolds:

- 7MF9011-4EA and 7MF9011-4FA valve manifolds for gauge pressure and absolute pressure transmitters
- 7MF9411-5BA and 7MF9411-5CA valve manifolds for absolute pressure and differential pressure transmitters

#### Design

The 7MF9011-4EA valve manifolds are sealed with gaskets made of PTFE between transmitter and the valve manifold as standard. Soft iron, stainless steel and copper gaskets are also available for sealing purposes if preferred.

The 7MF9011-4FA valve manifolds are sealed with PTFE sealing tape between the transmitter and the valve manifold.

The 7MF9411-5BA and 7MF9411-5CA valve manifolds are sealed with PTFE sealing rings between the transmitter and the valve manifold.

Once installed, the complete unit is checked under pressure for leaks (compressed air 6 bar (87 psi)) and is certified leak-proof with a test report to EN 10204 - 2.2.

All valve manifolds should preferably be secured with the respective mounting brackets. The transmitters are mounted on the valve manifold and not on the unit itself.

If you order a mounting bracket when choosing the option "Factory mounting of valve manifolds", you will receive a mounting bracket for the valve manifold instead of a bracket for mounting the transmitter.

If you order an acceptance test certificate 3.1 to EN 10204 when choosing the option "Factory mounting of valve manifolds", a separate certificate is provided for the transmitters and the valve manifolds respectively.

#### Selection and Ordering data

# 7MF9411-5AA valve manifold for relative and absolute pressure transmitters



| ١ | Add "- <b>Z</b> " to the Article No. of the transmitter and add order codes.   | Order<br>code |
|---|--|---------------|
|   | SITRANS P DSIII<br>7MF4032, 7MF4232, 7MF4033, 7MF4033, 7MF4034   | T05           |
|   | With process connection oval flange with PTFE gasket and <b>steel</b> mounting screws.   |               |
|   | Delivery including high-presure test certified by factory certificate according to EN 10204-2.2  |               |
|   | Additional versions:   |               |
|   | Delivery includes mounting brackets and mounting clips made of stainless steel (instead of the mounting bracket supplied with the transmitter) | A02           |
|   | Supplied acceptance test certificate to EN 10204- 3.1 for transmitters and mounted valve manifold  | C12           |
|   | With manufacturer declaration according to NACE, MR-0175   | D07           |
|   |  |               |

# 7MF9411-5AA valve manifold for relative and absolute pressure transmitters



| ١ | Add "-Z" to the Article No. of the transmitter and add order codes.  | Order<br>code |
|---|--|---------------|
|   | SITRANS P DSIII<br>7MF4032, 7MF4232,<br>7MF4033, 7MF4233,<br>7MF4034, 7MF4234  | T06           |
|   | With process connection oval flange with PTFE gasket and <b>stainless steel</b> mounting screws.   |               |
|   | Delivery including high-presure test certified by factory certificate according to EN 10204-2.2  |               |
|   |  |               |
|   | Additional versions:   |               |
|   | Additional versions:  Delivery includes mounting brackets and mounting clips made of stainless steel (instead of the mounting bracket supplied with the transmitter)   | A02           |
|   | Delivery includes mounting brackets and mounting clips made of stainless steel (instead of the mounting bracket supplied   | A02           |
|   | Delivery includes mounting brackets and mounting clips made of stainless steel (instead of the mounting bracket supplied with the transmitter)  Supplied acceptance test certificate to EN 10204- 3.1 for transmitters and |               |

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Pressure transmitters for applications with advanced requirements (Advanced) SITRANS P DS III

## Factory-mounting of valve manifolds on transmitters

# 7MF9011-4FA valve manifold on relative and absolute pressure transmitters



| $\operatorname{Add} \textbf{-Z}$ to the Article No. of the transmitter and add Order codes   | Order<br>code |
|--|---------------|
| SITRANS P DSIII<br>7MF4031, 7MF4231  | T03           |
| With process connection<br>female thread ½-14 NPT<br>in-sealed with PTFE sealing tape  |               |
| Delivery incl. high-pressure test certified by test report to EN 10204-2.2   |               |
| Further designs:   |               |
| Delivery includes mounting brackets and mounting clips made of stainless steel (instead of the mounting bracket supplied with the transmitter) | A02           |
| Supplied acceptance test certificate to EN 10204- 3.1 for transmitters and mounted valve manifold  | C12           |
| With manufacturer declaration according to NACE, MR-0175   | D07           |

### 7MF9011-4EA

#### valve manifold on relative and absolute pressure transmitters



| Add <b>-Z</b> to the Article No. of the transmitter and add Order codes   | Order<br>code     |
|---|-------------------|
| SITRANS P DSIII 7MF4030, 7MF4230 with process connection collar G1/2 A to EN 837-1 with gasket made of PTFE between valve manifold and transmitter                  | T02               |
| Alternative sealing material:  • Soft iron  • Stainless steel, Mat. No. 14571  • copper  Delivery incl. high-pressure test certified by test report to EN 10204-2.2 | A70<br>A71<br>A72 |
| Further designs: Delivery includes mounting brackets and mounting clips made of stainless steel (instead of the mounting bracket supplied with the transmitter)     | A02               |
| Supplied acceptance test certificate to EN 10204- 3.1 for transmitters and mounted valve manifold   | C12               |
| With manufacturer declaration according to NACE, MR-0175  | D07               |

# 7MF9411-5BA valve manifold on absolute and differential pressure transmitters



| Add <b>-Z</b> to the Article No. of the transmitter and add Order codes   | Order<br>code |
|---|---------------|
| SITRANS P DSIII<br>7MF433, 7MF443 and<br>7MF453 <sup>1)</sup>   |               |
| mounted with gaskets made of PTFE and screws made of • chromized steel  | U01           |
| made of stainless steel  Delivery incl. high-pressure test certified by test report to EN 10204-2.2                                 | U02           |
| Further designs:  |               |
| Delivery includes mounting bracket and mounting clips made of  • Steel  • Stainless steel (instead of the mounting bracket supplied | A01<br>A02    |
| with the transmitter)   |               |
| Supplied acceptance test certificate to EN 10204-3.1 for transmitters and mounted valve manifold                                    | C12           |
| With manufacturer declaration according to NACE, MR-0175  | D07           |

# 7MF9411-5CA valve manifold on differential pressure transmitters



| l. | Add <b>-Z</b> to the Article No. of the transmitter and add Order codes   | Order<br>code |
|----|---|---------------|
|    | SITRANS P DSIII 7MF443 and 7MF4531 1) mounted with gaskets made of PTFE and screws made of • chromized steel • Stainless steel Delivery incl. high-pressure test certified by test report to EN 10204-2.2 | U03<br>U04    |
|    | Further designs:  |               |
|    | Delivery includes mounting bracket and mounting clips made of • Steel • Stainless steel (instead of the mounting bracket supplied with the transmitter)   | A01<br>A02    |
|    | Supplied acceptance test certificate to EN 10204-3.1 for transmitters and mounted valve manifold  | C12           |
|    | With manufacturer declaration according to NACE, MR-0175  | D07           |

<sup>1)</sup> For 7MF453.-... transmitters, you require a 7/10-20 UNF connection thread in the process flange

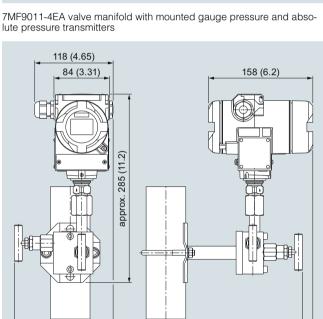
Pressure transmitters for applications with advanced requirements (Advanced) SITRANS P DS III

Factory-mounting of valve manifolds on transmitters

### Dimensional drawings

### Valve manifolds mounted on SITRANS P DS III





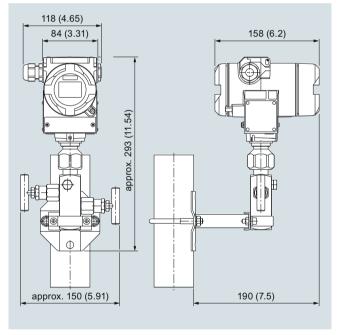
7MF9011-4EA valve manifold with mounted gauge pressure and absolute pressure transmitters, dimensions in mm (inch)

176 (6.93)

192 (7.56)



7MF9011-4FA valve manifold with mounted gauge pressure and absolute pressure transmitters



7MF9011-4FA valve manifold with mounted gauge pressure and absolute pressure transmitters, dimensions in mm (inch)

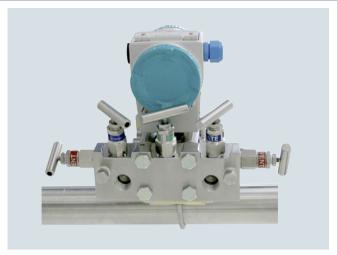
149 (5.87)

Pressure transmitters for applications with advanced requirements (Advanced) SITRANS P DS III

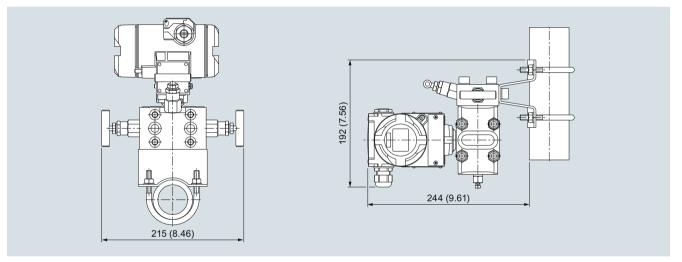
### Factory-mounting of valve manifolds on transmitters



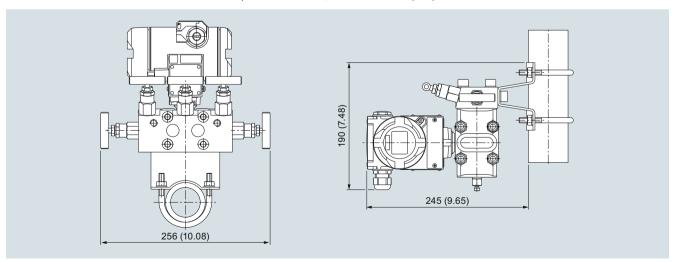
 $7\mbox{MF9411-5BA}$  valve manifold with mounted differential pressure transmitter



7MF9411-5CA valve manifold with mounted differential pressure transmitter



7MF9411-5BA valve manifold with mounted differential pressure transmitter, dimensions in mm (inch)



7MF9411-5CA valve manifold with mounted differential pressure transmitter, dimensions in mm (inch)