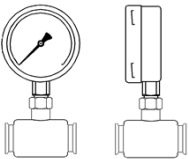


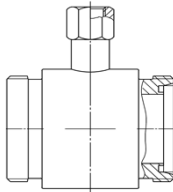
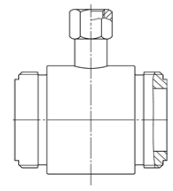
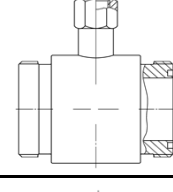
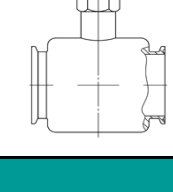
"ALL-STAINLESS" SANITARY PRESSURE GAUGES, TYPE PBQ

TYPE PBQ, with In-Line sanitary chemical seal

STANDARD MODEL

CASE	: bayonet lock, AISI304/1.4301, IP-65 blow-out		RANGE	: from -1/0 upto 0-40 bar, acc. to EN-837-1 (see page 55)
BODY	: AISI316Ti/1.4571		ACCURACY	: case Ø 63 and Ø 80 mm: ±1.6% F.S./class 1.6 case Ø 100 and Ø 160 mm: ±1.0% F.S. /class 1.0
WETTED PARTS	: AISI316Ti/1.4571, diaphragm CrNi		Tprocess	: -20/+120° Celcius (-40°C upto 250°C on demand)
WINDOW	: mineral glass 4 mm		OPTIONS	: see page 57-58, electrical contact or transmitter: 4-20 mA, 0-20mA, 0-10Vdc: see page 59-65
DIAL	: aluminium, black figures on white			
POINTER	: aluminium, black			
MOVEMENT	: stainless steel AISI304/1.4301			

PBQ100XA-31

TYPE	IN-LINE SEAL NORM	DN	MINIMUM PN	CASE DIAMETER xxx (Ø in mm)			
				063	100	160	
PBQxxxXA-22		DIN-11851	1" DN25	1 bar			
PBQxxxXA-23			1½" DN40	1 bar			
PBQxxxXA-24			2" DN50	1 bar			
PBQxxxXA-25		APV-ISS	1"	2.5 bar			
PBQxxxXA-26			1 ½"	1 bar			
PBQxxxXA-27			2"	1 bar			
PBQxxxXA-28		SMS	1"	2.5 bar			
PBQxxxXA-29			1 ½"	1 bar			
PBQxxxXA-30			2"	1 bar			
PBQxxxXA-31		TRI-CLAMP	1" - 1 ½"	2.5 bar			
PBQxxxXA-32			2"	1 bar			
PBQxxxXA-33			3"	1 bar			
OPTIONS					EXTRA COSTS		
GLYCERINE	GLYCERINE FILLED e.g. PBQ100LA-31 (L = Liquid) (In combination with electrical device: Ondina oil see page 64)						

» Other ranges, pressure ratings, flange sizes, materials and connections on demand

» Other Standards also available: e.g. DIN 11864, Südmo, Naue, Guth, Neumo

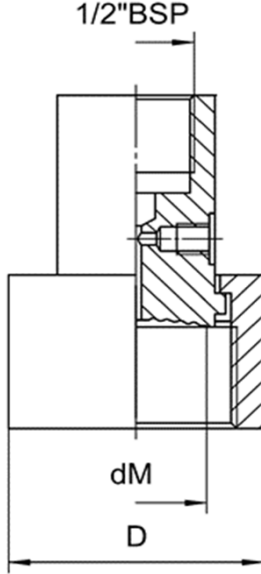
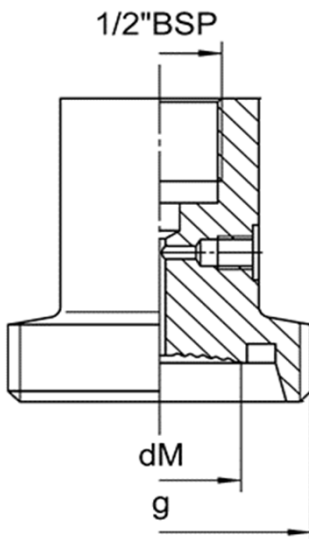
"ALL STAINLESS" SANITARY PRESSURE GAUGE, TYPE PBQ

TYPE	DRAWING	DIMENSIONS mm																																						
01 02 03	DIN 11 851 GLAND PIECE + COUPLING NUT	 <table><tr><th>DN</th><th>PN bar</th><th>D</th><th>dM</th><th>For tube Male ø</th><th>Tube Female ø</th></tr><tr><td>25</td><td rowspan="3">40</td><td>63</td><td>26</td><td>29 x 1,5</td><td>26</td></tr><tr><td>32</td><td>70</td><td>32</td><td>35 x 1,5</td><td>32</td></tr><tr><td>40</td><td>78</td><td>38</td><td>41 x 1,5</td><td>38</td></tr><tr><td>50</td><td rowspan="3">25</td><td>92</td><td>48</td><td>53 x 1,5</td><td>50</td></tr><tr><td>65</td><td>112</td><td>60</td><td>70 x 2</td><td>66</td></tr><tr><td>80</td><td>127</td><td>72</td><td>85 x 2</td><td>81</td></tr></table>	DN	PN bar	D	dM	For tube Male ø	Tube Female ø	25	40	63	26	29 x 1,5	26	32	70	32	35 x 1,5	32	40	78	38	41 x 1,5	38	50	25	92	48	53 x 1,5	50	65	112	60	70 x 2	66	80	127	72	85 x 2	81
DN	PN bar	D	dM	For tube Male ø	Tube Female ø																																			
25	40	63	26	29 x 1,5	26																																			
32		70	32	35 x 1,5	32																																			
40		78	38	41 x 1,5	38																																			
50	25	92	48	53 x 1,5	50																																			
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04 05	DIN 11 851 THREAD PIECE	 <table><tr><th>DN</th><th>PN bar</th><th>dM</th><th>g</th><th>For tube Male ø</th><th>Tube Female ø</th></tr><tr><td>25</td><td rowspan="5">40</td><td>26</td><td>Rd 52 x 1/6</td><td>29 x 1,5</td><td>26</td></tr><tr><td>32</td><td>32</td><td>Rd 58 x 1/6</td><td>35 x 1,5</td><td>32</td></tr><tr><td>40</td><td>38</td><td>Rd 65 x 1/6</td><td>41 x 1,5</td><td>38</td></tr><tr><td>50</td><td>48</td><td>Rd 78 x 1/6</td><td>53 x 1,5</td><td>50</td></tr><tr><td>65</td><td>60</td><td>Rd 95 x 1/6</td><td>70 x 2</td><td>66</td></tr></table>	DN	PN bar	dM	g	For tube Male ø	Tube Female ø	25	40	26	Rd 52 x 1/6	29 x 1,5	26	32	32	Rd 58 x 1/6	35 x 1,5	32	40	38	Rd 65 x 1/6	41 x 1,5	38	50	48	Rd 78 x 1/6	53 x 1,5	50	65	60	Rd 95 x 1/6	70 x 2	66						
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010 020 030	DIN 11 864-1 GLAND PIECE + COUPLING NUT	 <table><tr><th>DN</th><th>PN bar</th><th>D</th><th>dM</th><th>For tube Male ø</th><th>Tube Female ø</th></tr><tr><td>25</td><td rowspan="3">40</td><td>63</td><td>21</td><td>29 x 1,5</td><td>26</td></tr><tr><td>32</td><td>70</td><td>28</td><td>35 x 1,5</td><td>32</td></tr><tr><td>40</td><td>78</td><td>34</td><td>41 x 1,5</td><td>38</td></tr><tr><td>50</td><td rowspan="3">25</td><td>92</td><td>46</td><td>53 x 1,5</td><td>50</td></tr><tr><td>65</td><td>112</td><td>60</td><td>70x 2</td><td>66</td></tr><tr><td>80</td><td>127</td><td>72</td><td>85 x 2</td><td>81</td></tr></table>	DN	PN bar	D	dM	For tube Male ø	Tube Female ø	25	40	63	21	29 x 1,5	26	32	70	28	35 x 1,5	32	40	78	34	41 x 1,5	38	50	25	92	46	53 x 1,5	50	65	112	60	70x 2	66	80	127	72	85 x 2	81
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040 050	DIN 11 864-1 THREAD PIECE	 <table><tr><th>DN</th><th>PN bar</th><th>dM</th><th>g</th><th>For tube Male ø</th><th>Tube Female ø</th></tr><tr><td>25</td><td rowspan="3">40</td><td>21</td><td>Rd 52 x 1/6</td><td>29 x 1,5</td><td>26</td></tr><tr><td>32</td><td>28</td><td>Rd 58 x 1/6</td><td>35 x 1,5</td><td>32</td></tr><tr><td>40</td><td>34</td><td>Rd 65 x 1/6</td><td>41 x 1,5</td><td>38</td></tr><tr><td>50</td><td>25</td><td>46</td><td>Rd 78 x 1/6</td><td>53 x 1,5</td><td>50</td></tr></table>	DN	PN bar	dM	g	For tube Male ø	Tube Female ø	25	40	21	Rd 52 x 1/6	29 x 1,5	26	32	28	Rd 58 x 1/6	35 x 1,5	32	40	34	Rd 65 x 1/6	41 x 1,5	38	50	25	46	Rd 78 x 1/6	53 x 1,5	50										
DN	PN bar	dM	g	For tube Male ø	Tube Female ø																																			
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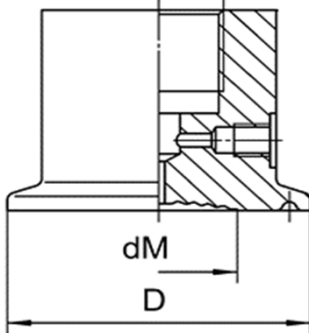
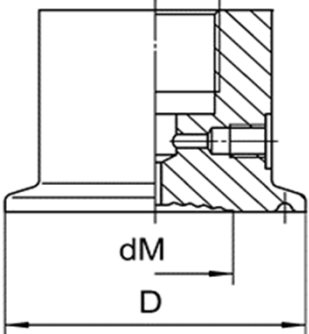
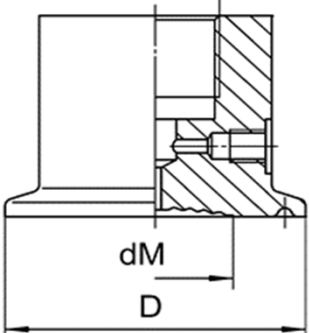
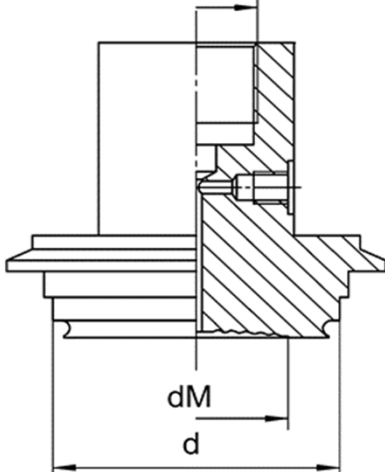
"ALL STAINLESS" SANITARY PRESSURE GAUGE, TYPE PBQ

TYPE	DRAWING	DIMENSIONS mm																																	
06 07	1/2"BSP	<table><tr><th>NPS</th><th>PN bar</th><th>dM</th><th>D</th><th>For tube Male ø</th><th>Tube Female ø</th></tr><tr><td>1"</td><td rowspan="4">40</td><td>19</td><td>51</td><td>25 x 1,2</td><td>22,6</td></tr><tr><td>1 1/2"</td><td>32</td><td>74</td><td>38 x 1,2</td><td>35,6</td></tr><tr><td>2"</td><td>46</td><td>84</td><td>51 x 1,2</td><td>48,6</td></tr><tr><td>2 1/2"</td><td>56</td><td>100</td><td>63,5 x 1,6</td><td>60,3</td></tr><tr><td>3"</td><td>25</td><td>66</td><td>114</td><td>76,4 x 1,6</td><td>72,9</td></tr></table>	NPS	PN bar	dM	D	For tube Male ø	Tube Female ø	1"	40	19	51	25 x 1,2	22,6	1 1/2"	32	74	38 x 1,2	35,6	2"	46	84	51 x 1,2	48,6	2 1/2"	56	100	63,5 x 1,6	60,3	3"	25	66	114	76,4 x 1,6	72,9
	NPS	PN bar	dM	D	For tube Male ø	Tube Female ø																													
1"	40	19	51	25 x 1,2	22,6																														
1 1/2"		32	74	38 x 1,2	35,6																														
2"		46	84	51 x 1,2	48,6																														
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3"	25	66	114	76,4 x 1,6	72,9																														
08 09	1/2"BSP	<table><tr><th>NPS</th><th>PN bar</th><th>dM</th><th>g</th><th>For tube Male ø</th><th>Tube Female ø</th></tr><tr><td>1 1/2"</td><td rowspan="2">40</td><td>32</td><td>Rd 60-6</td><td>38 x 1,2</td><td>35,6</td></tr><tr><td>2"</td><td>46</td><td>Rd 70-6</td><td>51 x 1,2</td><td>48,6</td></tr></table>	NPS	PN bar	dM	g	For tube Male ø	Tube Female ø	1 1/2"	40	32	Rd 60-6	38 x 1,2	35,6	2"	46	Rd 70-6	51 x 1,2	48,6																
	NPS	PN bar	dM	g	For tube Male ø	Tube Female ø																													
1 1/2"	40	32	Rd 60-6	38 x 1,2	35,6																														
2"		46	Rd 70-6	51 x 1,2	48,6																														
10 11	1/2"BSP	<table><tr><th>NPS</th><th>PN bar</th><th>dM</th><th>SW (D)</th><th>For tube Male ø</th><th>Tube Female ø</th></tr><tr><td>1"</td><td rowspan="4">40</td><td>19</td><td>51</td><td>25,4 x 1,6</td><td>22,2</td></tr><tr><td>1 1/2"</td><td>32</td><td>65</td><td>38,1 x 1,6</td><td>34,9</td></tr><tr><td>2"</td><td>38</td><td>79</td><td>50,8 x 1,6</td><td>47,6</td></tr></table>	NPS	PN bar	dM	SW (D)	For tube Male ø	Tube Female ø	1"	40	19	51	25,4 x 1,6	22,2	1 1/2"	32	65	38,1 x 1,6	34,9	2"	38	79	50,8 x 1,6	47,6											
	NPS	PN bar	dM	SW (D)	For tube Male ø	Tube Female ø																													
1"	40	19	51	25,4 x 1,6	22,2																														
1 1/2"		32	65	38,1 x 1,6	34,9																														
2"		38	79	50,8 x 1,6	47,6																														
12 13		1/2"BSP	<table><tr><th>NPS</th><th>PN bar</th><th>dM</th><th>g</th><th>For tube Male ø</th><th>Tube Female ø</th></tr><tr><td>1 1/2"</td><td rowspan="2">40</td><td>32</td><td>2 5/16x1/8"</td><td>38,1 x 1,6</td><td>34,9</td></tr><tr><td>2"</td><td>38</td><td>2 7/8x1/16"</td><td>50,8 x 1,6</td><td>47,6</td></tr></table>	NPS	PN bar	dM	g	For tube Male ø	Tube Female ø	1 1/2"	40	32	2 5/16x1/8"	38,1 x 1,6	34,9	2"	38	2 7/8x1/16"	50,8 x 1,6	47,6															
	NPS	PN bar	dM	g	For tube Male ø	Tube Female ø																													
1 1/2"	40	32	2 5/16x1/8"	38,1 x 1,6	34,9																														
2"		38	2 7/8x1/16"	50,8 x 1,6	47,6																														

"ALL STAINLESS" SANITARY PRESSURE GAUGE, TYPE PBQ

TYPE	DRAWING	DIMENSIONS mm																						
14 15	1/2"BSP ISO 2853 (IDF) GLAND PIECE + COUPLING NUT  dM D																							
		<table><tr><th>NPS</th><th>PN bar</th><th>dM</th><th>D</th><th>For tube Male ø</th><th>Tube Female ø</th></tr><tr><td>1"</td><td rowspan="3">40</td><td>19</td><td>52</td><td>25,6 x 1,5</td><td>22,6</td></tr><tr><td>1 1/2"</td><td>32</td><td>64</td><td>38,6 x 1,5</td><td>35,6</td></tr><tr><td>2"</td><td>46</td><td>79</td><td>51,6 x 1,5</td><td>48,6</td></tr></table>	NPS	PN bar	dM	D	For tube Male ø	Tube Female ø	1"	40	19	52	25,6 x 1,5	22,6	1 1/2"	32	64	38,6 x 1,5	35,6	2"	46	79	51,6 x 1,5	48,6
		NPS	PN bar	dM	D	For tube Male ø	Tube Female ø																	
		1"	40	19	52	25,6 x 1,5	22,6																	
1 1/2"	32	64		38,6 x 1,5	35,6																			
2"	46	79		51,6 x 1,5	48,6																			
16 17	1/2"BSP ISO 2853 (IDF) THREAD PIECE  dM g																							
		<table><tr><th>NPS</th><th>PN bar</th><th>dM</th><th>g</th><th>For tube Male ø</th><th>Tube Female ø</th></tr><tr><td>1 1/2"</td><td rowspan="2">40</td><td>34</td><td>1 1/2"IDF</td><td>38,6 x 1,5</td><td>35,6</td></tr><tr><td>2"</td><td>45</td><td>2"IDF</td><td>51,6 x 1,5</td><td>48,6</td></tr></table>	NPS	PN bar	dM	g	For tube Male ø	Tube Female ø	1 1/2"	40	34	1 1/2"IDF	38,6 x 1,5	35,6	2"	45	2"IDF	51,6 x 1,5	48,6					
		NPS	PN bar	dM	g	For tube Male ø	Tube Female ø																	
		1 1/2"	40	34	1 1/2"IDF	38,6 x 1,5	35,6																	
2"	45	2"IDF		51,6 x 1,5	48,6																			

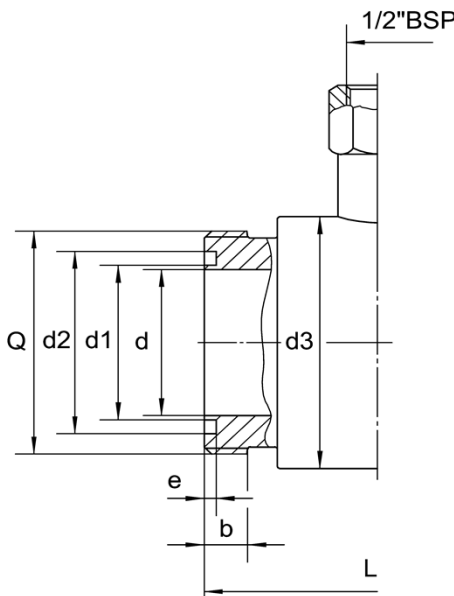
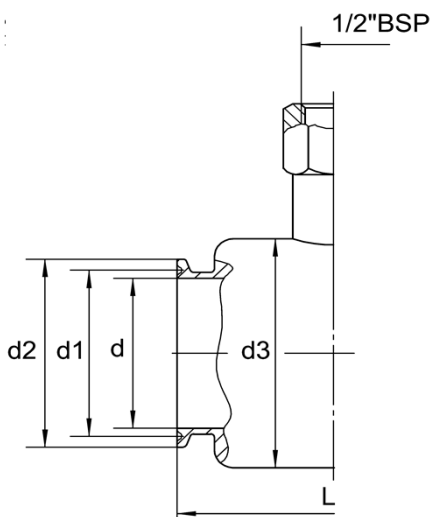
"ALL STAINLESS" SANITARY PRESSURE GAUGE, TYPE PBQ

TYPE	DRAWING	DIMENSIONS mm																																																										
18 19	1/2"BSP  ISO 2852 Tri - Clamp dM D For pipes per ISO 2037 and BS 4825 Part 1	 <table><thead><tr><th>DN</th><th>PN bar</th><th>D</th><th>dM</th><th>For tube Male ø</th><th>Tube Female ø</th></tr></thead><tbody><tr><td>DN25 - 1"</td><td rowspan="3">40</td><td rowspan="3">50.5</td><td>21</td><td>25 x 1,2</td><td>22,6</td></tr><tr><td>DN38 - 1 1/2"</td><td>32</td><td>38 x 1,2</td><td>35,6</td></tr><tr><td>DN51 - 2"</td><td>46</td><td>51 x 1,2</td><td>48,6</td></tr><tr><td>DN63,5 - 2 1/2"</td><td rowspan="2">25</td><td>77.5</td><td>56</td><td>63,5 x 1,6</td><td>60,3</td></tr><tr><td>DN76,1 - 3"</td><td>91</td><td>66</td><td>76,1 x 1,6</td><td>72,9</td></tr></tbody></table>	DN	PN bar	D	dM	For tube Male ø	Tube Female ø	DN25 - 1"	40	50.5	21	25 x 1,2	22,6	DN38 - 1 1/2"	32	38 x 1,2	35,6	DN51 - 2"	46	51 x 1,2	48,6	DN63,5 - 2 1/2"	25	77.5	56	63,5 x 1,6	60,3	DN76,1 - 3"	91	66	76,1 x 1,6	72,9																											
DN	PN bar	D	dM	For tube Male ø	Tube Female ø																																																							
DN25 - 1"	40	50.5	21	25 x 1,2	22,6																																																							
DN38 - 1 1/2"			32	38 x 1,2	35,6																																																							
DN51 - 2"			46	51 x 1,2	48,6																																																							
DN63,5 - 2 1/2"	25	77.5	56	63,5 x 1,6	60,3																																																							
DN76,1 - 3"		91	66	76,1 x 1,6	72,9																																																							
181 182 183	1/2"BSP  DIN 32 676 Tri - Clamp dM D For pipes per DIN 11 850	 <table><thead><tr><th>NPS</th><th>PN bar</th><th>D</th><th>dM</th><th>For tube Male ø</th><th>Tube Female ø</th></tr></thead><tbody><tr><td>DN 25</td><td rowspan="3">40</td><td rowspan="3">50,5</td><td>24</td><td>29 x 1,5</td><td>26</td></tr><tr><td>DN 32</td><td>28</td><td>35 x 1,5</td><td>32</td></tr><tr><td>DN 40</td><td>32</td><td>41 x 1,5</td><td>38</td></tr><tr><td>DN 50</td><td rowspan="2">25</td><td>64</td><td>46</td><td>53 x 1,5</td><td>50</td></tr><tr><td>DN 65</td><td>91</td><td>60</td><td>70 x 2</td><td>66</td></tr></tbody></table>	NPS	PN bar	D	dM	For tube Male ø	Tube Female ø	DN 25	40	50,5	24	29 x 1,5	26	DN 32	28	35 x 1,5	32	DN 40	32	41 x 1,5	38	DN 50	25	64	46	53 x 1,5	50	DN 65	91	60	70 x 2	66																											
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DN 50	25	64	46	53 x 1,5	50																																																							
DN 65		91	60	70 x 2	66																																																							
191 192 193	1/2"BSP  BS 4825 Tri - Clamp dM D For pipes per BS 4825 part 3 or ASME BPE	ASME BPE BS4825 - ISO 1127  <table><thead><tr><th colspan="2"></th><th colspan="2">For tubes according to:</th><th colspan="2">ASME BPE</th><th colspan="2">ISO 1127</th></tr><tr><th>NPS</th><th>DN</th><th>PN bar</th><th>D</th><th>dM</th><th>Tube Male ø</th><th>Tube Female ø</th><th>Tube Male ø</th><th>Tube Female ø</th></tr></thead><tbody><tr><td>3/4"</td><td>20</td><td rowspan="3">40</td><td>25,4</td><td>16</td><td>19,05 x 1,2</td><td>16,65</td><td>26,9 x 1,6</td><td>23,7</td></tr><tr><td>1"</td><td>25</td><td rowspan="2">50,5</td><td>21</td><td>25,4 x 1,6</td><td>22,2</td><td>33,7 x 2</td><td>29,7</td></tr><tr><td>1 1/2"</td><td>38</td><td>30</td><td>38,1 x 1,6</td><td>34,8</td><td>42,4 x 2</td><td>38,4</td></tr><tr><td>2"</td><td>51</td><td rowspan="2">25</td><td>64</td><td>38</td><td>50,8 x 1,6</td><td>47,5</td><td>48,3 x 2</td><td>44,3</td></tr><tr><td>2 1/2"</td><td>63,5</td><td>77,5</td><td>52</td><td>63,5 x 1,6</td><td>60,3</td><td>60,3 x 2</td><td>56,3</td></tr></tbody></table>			For tubes according to:		ASME BPE		ISO 1127		NPS	DN	PN bar	D	dM	Tube Male ø	Tube Female ø	Tube Male ø	Tube Female ø	3/4"	20	40	25,4	16	19,05 x 1,2	16,65	26,9 x 1,6	23,7	1"	25	50,5	21	25,4 x 1,6	22,2	33,7 x 2	29,7	1 1/2"	38	30	38,1 x 1,6	34,8	42,4 x 2	38,4	2"	51	25	64	38	50,8 x 1,6	47,5	48,3 x 2	44,3	2 1/2"	63,5	77,5	52	63,5 x 1,6	60,3	60,3 x 2	56,3
		For tubes according to:		ASME BPE		ISO 1127																																																						
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20 21	1/2"BSP  VARIVENT dM d	 <table><thead><tr><th>DN (d)</th><th>PN bar</th><th>suitable for In Line housing</th><th>dM</th></tr></thead><tbody><tr><td>50</td><td>25</td><td>DN25</td><td>30</td></tr><tr><td>68</td><td>16</td><td>DN40 and up</td><td>46</td></tr></tbody></table>	DN (d)	PN bar	suitable for In Line housing	dM	50	25	DN25	30	68	16	DN40 and up	46																																														
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SANITARY SEALS

TYPE	DRAWING	DIMENSIONS mm																																																																					
22 23 24	DIN 11851 IN-LINE SEAL	<table><tr><th>DN</th><th>PN bar</th><th>b</th><th>Q</th><th>d</th><th>d1</th><th>d2</th><th>d3</th><th>e</th><th>f</th><th>L</th></tr><tr><td>20</td><td rowspan="5">40</td><td rowspan="5">14</td><td>Rd 44x1/6</td><td>19.8</td><td>23</td><td>32.8</td><td>53</td><td rowspan="5">3.5</td><td rowspan="5">7</td><td rowspan="5">138</td></tr><tr><td>25</td><td>Rd 52x1/6</td><td>26.2</td><td>30</td><td>39.8</td><td>58</td></tr><tr><td>32</td><td>Rd 58x1/6</td><td>31.8</td><td>36</td><td>45.8</td><td>68</td></tr><tr><td>40</td><td>Rd 65x1/6</td><td>38</td><td>42</td><td>51.8</td><td>78</td></tr><tr><td>50</td><td>Rd 78x1/6</td><td>50.7</td><td>54</td><td>63.8</td><td>88</td></tr><tr><td>65</td><td rowspan="3">20</td><td>16</td><td>Rd 95x1/6</td><td>65.7</td><td>71</td><td>80.8</td><td>100</td><td rowspan="3">4</td><td rowspan="3">8</td><td rowspan="3">116</td></tr><tr><td>80</td><td>Rd 110x1/4</td><td>79.7</td><td>85</td><td>94.8</td><td>116</td></tr><tr><td>100</td><td>Rd 130x1/4</td><td>99.7</td><td>104</td><td>113.8</td><td>138</td></tr></table>	DN	PN bar	b	Q	d	d1	d2	d3	e	f	L	20	40	14	Rd 44x1/6	19.8	23	32.8	53	3.5	7	138	25	Rd 52x1/6	26.2	30	39.8	58	32	Rd 58x1/6	31.8	36	45.8	68	40	Rd 65x1/6	38	42	51.8	78	50	Rd 78x1/6	50.7	54	63.8	88	65	20	16	Rd 95x1/6	65.7	71	80.8	100	4	8	116	80	Rd 110x1/4	79.7	85	94.8	116	100	Rd 130x1/4	99.7	104	113.8	138
DN	PN bar	b	Q	d	d1	d2	d3	e	f	L																																																													
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25 26 27	APV-ISS IN-LINE SEAL	<table><tr><th>DN</th><th>PN psi</th><th>b</th><th>Q</th><th>d</th><th>d1</th><th>d2</th><th>d3</th><th>e</th><th>f</th><th>L</th></tr><tr><td>1"</td><td rowspan="3">600</td><td rowspan="3">17</td><td>1 15/32</td><td>22.5</td><td>—</td><td>29</td><td>—</td><td>2.6</td><td>—</td><td rowspan="3">126</td></tr><tr><td>1 1/2"</td><td>1 63/64</td><td>35.5</td><td>—</td><td>43</td><td>—</td><td>2.6</td><td>—</td></tr><tr><td>2"</td><td>2 17/32</td><td>48.6</td><td>—</td><td>56</td><td>—</td><td>2.6</td><td>—</td></tr></table>	DN	PN psi	b	Q	d	d1	d2	d3	e	f	L	1"	600	17	1 15/32	22.5	—	29	—	2.6	—	126	1 1/2"	1 63/64	35.5	—	43	—	2.6	—	2"	2 17/32	48.6	—	56	—	2.6	—																															
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1"	600	17	1 15/32	22.5	—	29	—	2.6	—	126																																																													
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SANITARY SEALS

TYPE	DRAWING	DIMENSIONS mm																																				
28 29 30	SMS  IN-LINE SEAL	 <table><tr><th>DN</th><th>PN bar</th><th>b</th><th>Q</th><th>d</th><th>d1</th><th>d2</th><th>d3</th><th>e</th><th>L</th></tr><tr><td>1"</td><td rowspan="3">40</td><td>11</td><td>Rd 40x1/6</td><td>22.5</td><td>25</td><td>32</td><td>48</td><td rowspan="3">3</td><td>126</td></tr><tr><td>1 1/2"</td><td>15</td><td>Rd 60x1/6</td><td>35.5</td><td>38</td><td>48</td><td>68</td><td></td></tr><tr><td>2"</td><td></td><td>Rd 70x1/6</td><td>48.6</td><td>51</td><td>61</td><td>78</td><td>100</td></tr></table>	DN	PN bar	b	Q	d	d1	d2	d3	e	L	1"	40	11	Rd 40x1/6	22.5	25	32	48	3	126	1 1/2"	15	Rd 60x1/6	35.5	38	48	68		2"		Rd 70x1/6	48.6	51	61	78	100
	DN	PN bar	b	Q	d	d1	d2	d3	e	L																												
	1"	40	11	Rd 40x1/6	22.5	25	32	48	3	126																												
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31 32 33	TRI-CLAMP  IN-LINE SEAL	 <table><tr><th>DN</th><th>PN bar</th><th>d</th><th>d1</th><th>d2</th><th>d3</th><th>L</th></tr><tr><td>1"</td><td rowspan="6">40</td><td>22.5</td><td rowspan="2">43.5</td><td rowspan="2">50.5</td><td rowspan="2">54</td><td rowspan="2">126</td></tr><tr><td>1 1/2"</td><td>35.5</td></tr><tr><td>2"</td><td>48.6</td><td rowspan="2">56.5</td><td rowspan="2">64</td><td rowspan="2">78</td><td rowspan="4">100</td></tr><tr><td>2 1/2"</td><td>59.7</td></tr><tr><td>3"</td><td>65.7</td><td rowspan="2">83.5</td><td rowspan="2">91</td><td colspan="2" rowspan="2">98</td></tr><tr><td>4"</td><td>99.7</td></tr></table>	DN	PN bar	d	d1	d2	d3	L	1"	40	22.5	43.5	50.5	54	126	1 1/2"	35.5	2"	48.6	56.5	64	78	100	2 1/2"	59.7	3"	65.7	83.5	91	98		4"	99.7				
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2 1/2"	59.7																																					
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STANDARD PRESSURE RANGES FOR TYPES:

PBX, PBX-TG, PBX-SF, PBB, PMX, PPB, PBS, PFS, PBQ, PFQ, PBR, PBT, RPX, RPP, PBX-SS, DIFFERENTIAL PRESSURE GAUGES

PRESSURE RANGES				EXTRA COSTS										
(in bar)*****	SCALE DIVISION			CASE DIMENSIONS (in mm)										
	cl. 1.0 cl. 1.6	OPTION												
		cl. 0.6 cl. 0.5	only PBX-TG cl. 0.3 cl. 0.25	Ø 63	Ø 80	Ø 100	Ø 160	Ø 250	72x72	96x96	144x144	192x192 280x280 380x380 400x300 500x400	72x144 144x72	192x96 96x192
-1 ...0	0.02	0.005	0.005	•										
-1 ...0.6	0.05	0.01	0.005	•										
-1 ...1.5	0.05	0.02	0.01	•										
-1 ...3	0.1	0.02	0.01	•										
-1 ...5	0.1	0.05	0.02	•										
-1 ...9	0.2	0.05	0.05	•										
-1 ...15	0.5	0.1	0.05	•										
-1 ...24	0.5	0.2	0.1	•										
0 ...0.6	0.01	x	x	•										
0 ...1	0.02	0.005	0.005	•										
0 ...1.6	0.05	0.01	0.005	•										
0 ...2.5	0.05	0.02	0.01	•										
0 ...4	0.1	0.02	0.01	•										
0 ...6	0.1	0.05	0.02	•										
0 ...10	0.2	0.05	0.05	•										
0 ...16	0.5	0.1	0.05	•										
0 ...25	0.5	0.2	0.1	•										
0 ...40	1	0.2	0.1	•										
0 ...60	1	0.5	0.2	•										
0 ...100	2	0.5	0.5											
0 ...160	5	1	0.5											
0 ...250 	5	2	1											
0 ...400 	10	2	1											
0 ...600 	10	5	2											
0 ...1000 	20	5	5											
0 ...1600 	50	x	x	x	x			x					x	x
0 ...2000 	50	x	x	x	x			x	x	x	x	x	x	x
0 ...2500* 	50	x	x	x	x			x	x	x	x	x	x	x
0 ...3000* 	50	x	x	x	x			x	x	x	x	x	x	x
0 ...4000* 	50	x	x	x	x		See p14	x	x	x	x	x	x	x
0 ...5000***, 0 ... 6000*** and 0 ...7000*** - see page 14 														
NON STANDARD RANGES														
e.g. 0-7 bar or 0-110 psi														
DOUBLE SCALES														
e.g. bar/psi, bar/kPa, etc.														
FREON SCALES e.g. R12, R134A, R22, R404A, R407C, R502, R504, R717, NH3														
ACCURACY														
±1.6% F.S. (class 1.6)				•	•	x	x	x	•	•	x	x	x	x
±1.0% F.S. (class 1.0)						•	•	•			•	•	•	•
±0.6 / 0.5 %F.S. (class 0.6 or 0.5)***				x	x				x	x				
±0.3 / 0.25 %F.S. (class 0.3 or 0.25) ****				x	x	x	****	****	x	x	x	x	x	x
Mirrorscale (standard for PBX-TG, page 12)				x	x	x			x	x	x	x	x	x
TRM scales														
0 ...100 % lin.														
0 ...10 square root														
0.2 ...1 bar														
3 ...15 psi														
20 ...100 kPa														
x	NOT AVAILABLE													
•	STANDARD													

* ELEMENT CrMo52 i.o. AISI316Ti/1.4571

** ELEMENT NiSpan C i.o. AISI316Ti/1.4571

*** ONLY FOR TYPE PBX OR PBX-SF

****ONLY FOR TYPE PBX-TG - see page 12

* ELEMENT CrMo52 i.o. AISI316Ti/1.4571 *** ONLY FOR TYPE PBX OR PBX-SF

** ELEMENT NiSpan C i.o. AISI316Ti/1.4571 ****ONLY FOR TYPE PBX-TG - see page 12

***** Scale in Psi, kPa, kg/cm², mWC etc. available with no extra charge

OPTIONS ON PRESSURE GAUGES

TYPE	CASE DIMENSIONS (in mm)	EXTRA COSTS								
		CONNECTIONS							CASE & BEZEL	
		1/8"BSP/NPT max. 400 bar	1/4"BSP/NPT max. 1000 bar	1/2"BSP max. 2500 bar***, 1/2"NPT max. 1000 bar	3/8"BSP/NPT max. 1000 bar	M20x1.5 max. 1600 bar	M16x1.5 H.P. female max. 7000 bar**	9/16"UNF x 18 H.P. female max. 7000 bar**	AISI316L / 1.4404	BACK / FRONT FLANGE AISI316L/1.4404
PBX	063		•							×
	080		•						×	×
	100			•						
	160			•					*	*
	250			•					×	×
PBX-SF	063		•						○	×
	100			•					○	
	160			•					○	
PBB	100			•					×	×
	160			•					×	×
PCX	100			•			×	×		
	160			•			×	×		
	250			•			×	×	×	×
PMX	100			•			×	×		×
	160			•			×	×		×
PPB - PPC	square		•				×	×	×	×
	rectangular		•				×	×	×	×
PBS - PBQ	063	ON DEMAND: SEE ALSO PAGE 23-41								
PFS - PFQ	080								×	×
	100									
	160									
PBR - PBT	100	SEE PAGE 42-43								×
	160									×
PCD	100			•			×	×		
	160			•			×	×		
PBD	100			•			×	×	×	×
	160			•			×	×	×	×
PMD	100			•			×	×		
	160			•			×	×	×	×
POD	100						×	×		×
	160						×	×	*	×
RPX	ALL			•					×	×
PBX-SS	063		•						•	•
	100			•					•	•
	160			•					•	•

×

NOT AVAILABLE

•

STANDARD

○

ON DEMAND

* Not possible in combinations with contacts or transmitters

** Not available with pulsation damper

*** As per DIN16001

OPTIONS ON PRESSURE GAUGES

TYPE	CASE DIMENSIONS (in mm)	EXTRA COSTS													
		WINDOW MATERIAL			BLOW- OUT		POINTERS					MEASURING SYSTEM			
		PMMA - PLEXIGLASS	SECURIT	LAMINATED SAFETY GLASS	DISC	PLUG * (LIQUID FILLED)	ADJUSTABLE	INDEX POINTER ON GLASS	DRAG POINTER		DRAG POINTER in combination with HZ contact	OIL & GREASE FREE**	MONEL WETTED PARTS	PULSATION DAMPER AISI316 1.4401	OVERLOAD 2x F.S. other on demand
									Single	Double		MAX 400 bar			
PBX	063				●	●				×	×				
	080				●	●				×	×				
	100				●	●									
	160				●	●									
	250				●	●					×		×		
PBX-SF	063	×	×	●	×	×				×	×				
	100	×	×	●	×	×				×					
	160	×	×	●	×	×				×					
PBB	100				●	●	×			×					
	160				●	●	×			×					
PCX	100				●	●			O	×	×	×	×		see page 16
	160				●	●			O	×	×	×	×		
	250				●	●			×	×	×	×	×		
PMX	100				●	●				×			×	×	see page 17-18
	160				●	●				×			×	×	
PBB	square	●	×	×	×	×				×			×		O
PPC	rectangular	●	×	×	×	×	×	×	×	×	×		×		O
PBS	063		×		●	●				×	×		O		O
PBQ	080		×	×	●	●				×	×		O		O
PFS	100				●	●				×			O		O
PFQ	160				●	●				×			O		O
PBR	100				●	●				×			O		O
PBT	160				●	●				×			O		O
PCD	100	×		×	×	×		×	×	×	×	×	×		see page 46
	160	×		×	×	×		×	×	×	×	×	×		
PBD	100				●	●				×		×			×
	160				●	●				×		×			×
PDD	100				●	●				×		×	×		×
PMD	160				●	●				×		×	×		×
POD	100				●	●				×	×	×	×		×
	160				●	●				×	×	×	×		×
RPX	ALL	●	see page 21, 22	×	×	×	●	×	×	×	×		×		×
RPP		●		×	×	×	●	×	×	×	×		×		×
PBX-SS	063	×	●	×	×	×		×	×	×	×				
	100	×	●	×	×	×		×	×	×	×				
	160	×	●	×	×	×		×	×	×	×				

×

NOT AVAILABLE

•

STANDARD

O

ON DEMAND

* WITH COMPENSATING DIAPHRAGM

** Only PBX-SFxxxX is suitable for use on oxygen!!