
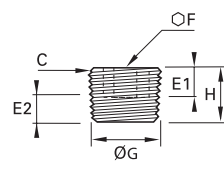


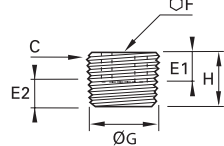



Brass Plugs


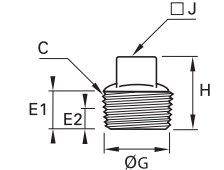

0205 Internal Hexagon Head Plug, Male BSPT Thread

	Brass 	C		E1	E2 min	E2 max	F	G	H	kg
		R1/8	0205 10 00	6	3.1	4.9	5	9.7	8	0.003
		R1/4	0205 13 00	8	4.7	7.3	6	13.2	10	0.007
		R3/8	0205 17 00	8	5.1	7.7	8	16.7	11	0.013
		R1/2	0205 21 00	8	6.4	10	10	21	13	0.026
		R3/4	0205 27 00	11	7.7	11.3	14	26.4	17	0.054
		R1	0205 34 00	13	8.1	12.7	17	33.2	19	0.094
		R1¼	0205 42 00	14	10.4	15	22	41.9	22	0.176
		R1½	0205 49 00	14	10.4	15	24	47.8	22	0.246
		R2	0205 48 00	16	13.6	18.2	30	59.6	25	0.431
For BSPT plug from 1/2" - 1½" inclusive: Conforms to DIN 906 Thread: EN 10226-1										


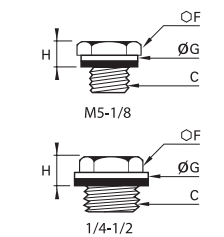

0205 Internal Hexagon Head Plug, Male NPT Thread

	Brass 	C		E1	E2 min	E2 max	F	G	H	kg
		NPT1/8	0205 11 00	6	3.2	5	5	10.2	8	0.003
		NPT1/4	0205 14 00	8	4.4	7.2	6	13.6	10	0.008
		NPT3/8	0205 18 00	8	4.7	7.5	8	17	11	0.014
		NPT1/2	0205 22 00	8	6.3	9.9	10	21.2	13	0.026
		NPT3/4	0205 28 00	11	6.8	10.4	14	26.6	17	0.052
		NPT1	0205 35 00	13	8	12.4	17	33.2	19	0.091


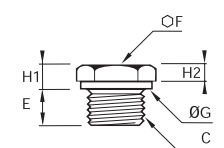

0209 Square Head Plug, Male BSPT Thread

	Brass 	C		E1	E2 min	E2 max	G	H	J	kg
		R1/8	0209 10 00	6	3.1	4.9	9.7	16	6	0.007
		R1/4	0209 13 00	8	4.7	7.3	13.2	18	8	0.014
		R3/8	0209 17 00	10	5.1	7.7	16.7	20	10	0.025
		R1/2	0209 21 00	11	6.4	10	21	22	13	0.047
		R3/4	0209 27 00	15	7.7	11.3	26.4	28	17	0.097
		R1	0209 34 00	18	8.1	12.7	33.2	32	19	0.170
Conforms to DIN 906 Thread: EN 10226-1										

0220 Hex Head Plug, Male BSPP and Metric Thread

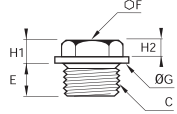

	Brass, technical polymer 	C		F	G	H1	kg
		M5x0.8	0220 19 00	8	8	5	0.002
		G1/8	0220 10 00	14	14	7.5	0.011
		G1/4	0220 13 00	17	17	7.5	0.019
		G3/8	0220 17 00	17	22	8.5	0.024
		G1/2	0220 21 00	22	27	10	0.040
Pre-assembled polyamide washer M5: with screwdriver slot for tightening Maximum allowable working pressure = 20 bar Part number with suffix 99, maximum allowable working pressure = 250 bar, example: 0220 19 00 99 Conforms to BNA 229 (with the exception of M5 model), BSPP thread, ISO ISO 228-1, Parallel, metric thread, ISO NFE 03-054							

0200 Hex Head Plug, Male BSPP and Metric Thread

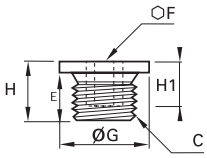

	Brass 	C		E	F	G	H1	H2	kg
		M6x1	0200 52 00	6	10	10	4	3.5	0.004
		M8x1.25	0200 57 00	7	13	13	4	3.5	0.007
		M10x1	0200 60 00	8	14	14	5	4.5	0.011
		M12x1	0200 65 00	9	17	17	5	4.5	0.018
		M12x1.25	0200 66 00	9	17	17	5	4.5	0.017
		G1/8	0200 10 00	7	14	13.7	5.5	4	0.011
		G1/4	0200 13 00	8.5	17	16.7	5.5	4	0.019

Brass Plugs

0201 Hex Head Plug with Collar, Male BSPP and Metric Thread

0201	Brass		C		E	F	G	H1	H2	kg
			M16x1.5		0201 75 00	10	17	22	6.5	5
M18x1.5	0201 78 00	10	17	24	7	5	0.026			
M20x1.5	0201 80 00	10	17	26	7.5	5	0.031			
M22x1.5	0201 82 00	10	22	30	7.5	5	0.044			
M24x1.5	0201 83 00	10	22	32	7.5	5	0.046			
M24x2	0201 92 00	10	22	32	7.5	5	0.046			
M30x2	0201 88 00	11	27	38	8.5	6	0.075			
G3/8	0201 17 00	10	17	21.7	6.5	4.5	0.024			
G1/2	0201 21 00	10	22	26.7	7.5	5	0.041			
G3/4	0201 27 00	11	22	31.7	8.5	6	0.057			
G1	0201 34 00	11	27	39.7	8.5	6	0.087			
G1¼	0201 42 00	12	30	49.7	10	7	0.142			

0202 Internal Hexagon Head Plug with Collar, Male Metric Thread

0202	Brass		C		E	F	G	H	H1	kg
			M12x1		0202 65 00	9	6	17	11	8
M12x1.25	0202 66 00	9	6	17	11	8	0.009			
M14x1.5	0202 71 00	10	6	19	13	10	0.015			
M16x1.5	0202 75 00	10	8	22	13	10	0.020			
M18x1.5	0202 78 00	10	10	24	13	10	0.022			
M20x1.5	0202 80 00	10	12	26	13	10	0.025			
M22x1.5	0202 82 00	10	12	30	13	10	0.034			
M27x2	0202 86 00	11	17	35	15	11	0.053			
M30x2	0202 88 00	11	19	38	15	11	0.062			

Parallel metric threads, ISO standard NFE 03-054

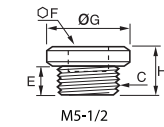
Nickel-Plated Brass Plugs

0919

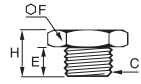
Internal Hexagon Head Plug, Male BSPP and Metric Thread




Nickel-plated brass



M5-1/2



3/4-1"

C		E	F	G	H	kg
M5x0.8	0919 00 19	4	2.5	8	7.5	0.001
G1/8	0919 00 10	6	3	15	10	0.007
G1/4	0919 00 13	8	6	18	12	0.013
G3/8	0919 00 17	9	8	21	13	0.021
G1/2	0919 00 21	10	10	25	14.5	0.036
G3/4	0919 00 27	11	30	-	17	0.050
G1	0919 00 34	13	38	-	19	0.076

Steel Plugs

0206 Internal Hexagon Head Plug, Male BSPT Thread

	Steel		C		E1	E2 min	E2 max	F	G	H	kg
			R1/8	0206 10 00	6	3.1	4.9	5	9.7	8	0.003
			R1/4	0206 13 00	8	4.7	7.3	6	13.2	10	0.007
			R3/8	0206 17 00	8	5.1	7.7	8	16.7	11	0.012
			R1/2	0206 21 00	8	6.4	10	10	21	13	0.023
			R3/4	0206 27 00	11	7.7	11.3	14	26.4	17	0.048
			R1	0206 34 00	13	8.1	12.7	17	33.2	19	0.086
			R1¼	0206 42 00	14	10.4	15	22	41.9	22	0.166
			R1½	0206 49 00	14	10.4	15	24	47.8	22	0.222
<p>For BSPT plugs, from 1/2" - 1½" inclusive Conforms to DIN 906 Thread, conforms to EN 10226-1</p>											

0206 Internal Hexagon Head Plug, Male NPT Thread

	Steel		C		E1	E2 min	E2 max	F	G	H	kg
			NPT1/16	0206 08 00	6	3.8	6.4	4	7.8	7	0.002
			NPT1/8	0206 11 00	6	3.2	5	5	10.2	8	0.003
			NPT1/4	0206 14 00	8	4.4	7.2	6	13.6	10	0.007
			NPT3/8	0206 18 00	8	4.7	7.5	8	17	11	0.012
			NPT1/2	0206 22 00	8	6.3	9.9	10	21.2	13	0.024
			NPT3/4	0206 28 00	11	6.8	10.4	14	26.6	17	0.047
			NPT1	0206 35 00	13	8	12.4	17	33.2	19	0.083

0210 Hex Head Plug, Male BSPP and Metric Thread

	Steel		C		E	F	G	H	kg
			M8x1.25	0210 57 00	8	14	12	15	0.010
			M10x1	0210 60 00	8	14	14	15	0.013
			M12x1.25	0210 66 00	11	17	17	18	0.021
			G1/8	0210 10 00	8	14	14	15	0.012
			M14x1.25	0210 70 00	11	19	19	20	0.032
			G1/4	0210 13 00	12	19	18	21	0.031
			G3/8	0210 17 00	12	22	22	21	0.046
			G1/2	0210 21 00	14	27	26	24	0.078
			G3/4	0210 27 00	16	32	32	27	0.134
			G1	0210 34 00	18	41	39	33	0.269
			G1¼	0210 42 00	20	50	49	35	0.441
<p>Profile of head undercut conforms to DIN 3852-1; form D/E BSPP threads, ISO 228-1 Parallel metric threads, NFE 03-054</p>									

0216 Hex Head Plug, Male BSPT Thread


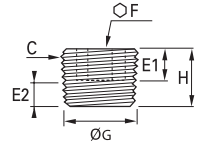

	Steel		C		F	H	kg
			R1/8	0216 10 00	13	16	0.012
			R1/4	0216 13 00	17	19	0.023
			R3/8	0216 17 00	19	21	0.038
			R1/2	0216 21 00	22	23	0.060
<p>BSPT thread conforms to EN 10226-1</p>							

0216 Hex Head Plug, Male NPT Thread


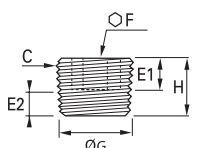

	Steel		C		F	H	kg
			NPT1/8	0216 11 00	13	16	0.012
			NPT1/4	0216 14 00	17	19	0.024
			NPT3/8	0216 18 00	19	21	0.038
			NPT1/2	0216 22 00	22	23	0.060

Stainless Steel Plugs

0285 Internal Hexagon Head Plug, Male BSPT Thread


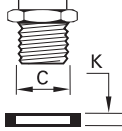


	Stainless steel 316L 	C		E1	E2 min	E2 max	F	G	H	kg
		R1/8	0285 10 00	6	3.1	4.9	5	9.7	8	0.003
		R1/4	0285 13 00	8	4.7	7.3	6	13.2	10	0.007
		R3/8	0285 17 00	8	5.1	7.7	8	16.7	11	0.013
		R1/2	0285 21 00	8	6.4	10	10	21	13	0.024
		R3/4	0285 27 00	11	7.7	11.3	14	26.4	17	0.051
		R1	0285 34 00	13	8.1	12.7	17	33.2	19	0.089

0285 Internal Hexagon Head Plug, Male NPT Thread

	Stainless steel 316L 	C		E1	E2 min	E2 max	F	G	H	kg
		NPT1/8	0285 11 00	6	3.2	5	5	10.2	8	0.003
		NPT1/4	0285 14 00	8	4.4	7.2	6	13.6	10	0.007
		NPT3/8	0285 18 00	8	4.7	7.5	8	17	11	0.013
		NPT1/2	0285 22 00	8	6.3	9.9	10	21.2	13	0.025



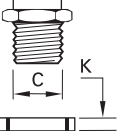

Sealing Accessories

0138 Copper Washer

Copper	  	C		G1	G2	K	kg
		M6	0138 06 00	6.3	9	1	0.033
M8	0138 08 00	8.3	11	1	0.001		
M12	0138 12 00	12.3	15.5	1.3	0.072		
M14	0138 14 00	14.3	18	1.5	0.001		
M16	0138 16 00	16.3	20	1.5	0.001		
M18	0138 18 00	18.3	22	1.5	0.001		
M20	0138 20 00	20.3	24	1.5	0.001		
M22	0138 22 00	22.3	27	1.5	0.002		
M24	0138 24 00	24.3	29	2	0.003		
M26	0138 26 00	26.3	31	2	0.003		
M30	0138 30 00	30.3	36	2	0.004		
M36	0138 36 00	36.3	42	2	0.005		
M39	0138 39 00	39.3	44	2	0.007		
M45	0138 45 00	45.3	52	2	0.007		
M52	0138 52 00	52.3	60	2	0.009		
G1/8	0138 10 00	10.3	13.5	1	0.001		
G1/4	0138 13 00	13.5	18	1.3	0.001		
G3/8	0138 17 00	17.3	21	1.5	0.001		
G1/2	0138 21 00	21.3	26	1.5	0.002		
G3/4	0138 27 00	27.3	32	2	0.003		
G1	0138 33 00	33.5	39	2	0.005		
G1 1/4	0138 42 00	42.5	49	2	0.007		
G1 1/2	0138 48 00	48.3	55	2	0.008		
G2	0138 60 00	60	68	2.5	0.014		

DIN 7603
ISO 65061



0137 Bonded Seal

Zinc-plated steel with NBR seal	C		G1	G2	K	kg
	M12	0137 12 00	12.7	19	1.5	0.001
	M14	0137 14 00	14.7	21	1.5	0.001
	M16	0137 16 00	16.7	23	1.5	0.002
	M18	0137 18 00	18.7	27	2	0.004
	M20	0137 20 00	20.7	29	2	0.004
	M22	0137 22 00	22.7	31	2	0.005
	M24	0137 24 00	24.7	33	2	0.005
	M30	0137 30 00	30.7	39	2	0.071
	M39	0137 39 00	40	51	2.5	0.012
	M45	0137 45 00	46	57	2.5	0.014
	G1/8	0137 10 00	10.7	17	1.5	0.001
	G1/4	0137 13 00	13.7	20.6	2.1	0.002
	G3/8	0137 17 00	17.4	23.7	1.5	0.002
	G1/2	0137 21 00	21.5	28.6	2.5	0.004
	G3/4	0137 27 00	27	35.3	2	0.007
	G1	0137 33 00	33.7	42	2	0.007
	G1 1/4	0137 42 00	43	54	2.5	0.013
	G1 1/2	0137 48 00	49	60	2.5	0.015
	G2	0137 60 00	60.7	73	3	0.027



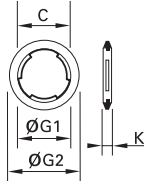
Note: to use these bonded seals successfully it is necessary to spot face around the female thread to provide a sealing face.
The diameter should be 0.3 mm to 0.5 mm greater than the external diameter of the seal.
The surface finish of the spot face should not exceed 12 µ.

Sealing Accessories



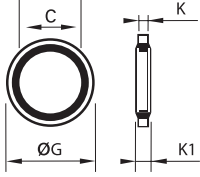
0605 Fluoropolymer Tape

	FKM		kg
		0605 12 12	0.012
<p>Can be used for temperatures from - 250°C to +260°C. Chemically inert and resistant to gases, acids, solvents, hydrocarbons, oils, alkalines, steam etc. Non-toxic, waterproof, self-lubricating. In accordance with CFR21. Can be used on all materials. Used to facilitate the preparation of leak-free threaded joints. Supplied on a reel, length = 12 m; width = 12.7 mm; thickness 0.08 mm.</p>			

0602 Captive Sealing Washer

	Technical polymer	C		G1	G2	K	kg																																									
		<table border="1"> <tr> <td>M5x0.8</td> <td>0602 29 93 15</td> <td>5.2</td> <td>7.8</td> <td>1.5</td> <td>0.001</td> </tr> <tr> <td>G1/8</td> <td>0602 23 10 20</td> <td>10.3</td> <td>14</td> <td>2</td> <td>0.001</td> </tr> <tr> <td>G1/4</td> <td>0602 23 11 20</td> <td>13.7</td> <td>17.5</td> <td>2</td> <td>0.001</td> </tr> <tr> <td>G3/8</td> <td>0602 23 12 20</td> <td>17.2</td> <td>21</td> <td>2</td> <td>0.001</td> </tr> <tr> <td>G1/2</td> <td>0602 23 13 20</td> <td>21.5</td> <td>25.5</td> <td>2.5</td> <td>0.002</td> </tr> <tr> <td>G3/4</td> <td>0602 27 32 20</td> <td>27</td> <td>32</td> <td>2.5</td> <td>0.001</td> </tr> <tr> <td>G1</td> <td>0602 30 60 20</td> <td>33.8</td> <td>39</td> <td>3</td> <td>0.001</td> </tr> </table>	M5x0.8	0602 29 93 15	5.2	7.8	1.5	0.001	G1/8	0602 23 10 20	10.3	14	2	0.001	G1/4	0602 23 11 20	13.7	17.5	2	0.001	G3/8	0602 23 12 20	17.2	21	2	0.001	G1/2	0602 23 13 20	21.5	25.5	2.5	0.002	G3/4	0602 27 32 20	27	32	2.5	0.001	G1	0602 30 60 20	33.8	39	3	0.001	Maximum allowable working pressure: 20 bar			
M5x0.8	0602 29 93 15	5.2	7.8	1.5	0.001																																											
G1/8	0602 23 10 20	10.3	14	2	0.001																																											
G1/4	0602 23 11 20	13.7	17.5	2	0.001																																											
G3/8	0602 23 12 20	17.2	21	2	0.001																																											
G1/2	0602 23 13 20	21.5	25.5	2.5	0.002																																											
G3/4	0602 27 32 20	27	32	2.5	0.001																																											
G1	0602 30 60 20	33.8	39	3	0.001																																											

0139 Bi-Material Captive Sealing Washer

	Zinc-plated steel with NBR seal	C		G	K	K1	kg																																			
		<table border="1"> <tr> <td>G1/8</td> <td>0139 10 00</td> <td>14</td> <td>1</td> <td>1.7</td> <td>0.001</td> </tr> <tr> <td>G1/4</td> <td>0139 13 00</td> <td>17</td> <td>1</td> <td>1.7</td> <td>0.001</td> </tr> <tr> <td>G3/8</td> <td>0139 17 00</td> <td>22</td> <td>1.2</td> <td>2.1</td> <td>0.001</td> </tr> <tr> <td>G1/2</td> <td>0139 21 00</td> <td>26</td> <td>1.6</td> <td>2.5</td> <td>0.002</td> </tr> <tr> <td>G3/4</td> <td>0139 27 00</td> <td>32</td> <td>1.5</td> <td>2.5</td> <td>0.003</td> </tr> <tr> <td>G1</td> <td>0139 34 00</td> <td>39.6</td> <td>1.7</td> <td>2.6</td> <td>0.003</td> </tr> </table>	G1/8	0139 10 00	14	1	1.7	0.001	G1/4	0139 13 00	17	1	1.7	0.001	G3/8	0139 17 00	22	1.2	2.1	0.001	G1/2	0139 21 00	26	1.6	2.5	0.002	G3/4	0139 27 00	32	1.5	2.5	0.003	G1	0139 34 00	39.6	1.7	2.6	0.003	Maximum allowable working pressure: 250 bar			
G1/8	0139 10 00	14	1	1.7	0.001																																					
G1/4	0139 13 00	17	1	1.7	0.001																																					
G3/8	0139 17 00	22	1.2	2.1	0.001																																					
G1/2	0139 21 00	26	1.6	2.5	0.002																																					
G3/4	0139 27 00	32	1.5	2.5	0.003																																					
G1	0139 34 00	39.6	1.7	2.6	0.003																																					

Technical characteristics of captive seals **0602**


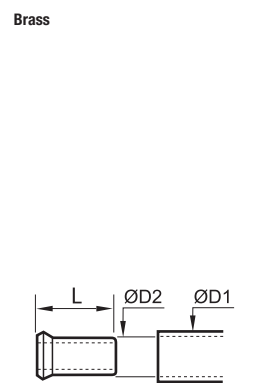

Tightening torque




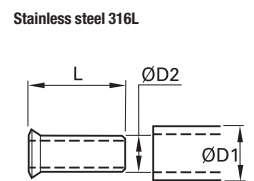

	M5x0.8	G1/8	G1/4	G3/8	G1/2	G3/4	G1
Min. Torque in daN.m	0.06	0.08	0.3	0.5	1	1.2	1.9
Max. Torque daN.m	0.16	0.8	1.2	3	3.5	6	9

Tube Supports

0127 Brass Tube Support for Polymer Tubing

	Brass 	ØD1	ØD2		L	kg
		4	2	0127 04 00	11	0.001
			2.7	0127 04 27	11	0.001
		5	3	0127 05 03	11	0.001
			3.3	0127 05 00	11.5	0.009
		6	4	0127 06 00	11.5	0.001
		8	5.5	0127 08 55	14	0.001
			6	0127 08 00	14	0.001
			7	0127 10 07	18	0.001
		10	7.5	0127 10 75	18	0.001
			8	0127 10 00	18	0.002
		12	8	0127 12 08	18	0.002
			9	0127 12 09	18	0.002
			10	0127 12 00	18	0.001
		14	11	0127 14 11	18	0.002
			12	0127 14 00	18	0.002
		15	12	0127 15 12	18	0.002
		16	13	0127 16 13	18	0.003
		18	14	0127 18 14	19.5	0.003
		20	15	0127 20 15	20.5	0.003
		22	16	0127 22 16	21	0.004
		25	19	0127 25 19	25	0.007
This tube support guarantees good gripping, at high temperatures and pressures, by preventing collapsing of the tube.						

1827 Stainless Steel Tube Support for Fluoropolymer Tubing

	Stainless steel 316L 	ØD1	ØD2		L	kg
		6	4	1827 06 00	11.5	0.001
		8	6	1827 08 00	14	0.001
		10	8	1827 10 00	18	0.001
		12	9	1827 12 09	18	0.001
			10	1827 12 00	18	0.001
		16	14	1827 16 00	18	0.002
This tube support is necessary when using fluoropolymer FEP tubing at all temperatures compatible with the fitting/ tubing assembly.						