

Fitting Accessories Nickel-Plated Brass / Alu



CHARACTERISTICS

BODY MATERIAL / SUITABILITY

Nickel-plated brass	CuZn39Pb3, electrolytically nickel-plated (on request also chemically nickel-plated)
Aluminium	Aluminium alloy AlCuMgPbF37

THREAD

External thread	"M" cylindrical thread: Metric ISO thread M5
External thread	"G" cylindrical thread: Whitworth pipe thread DIN ISO 228-1 G 1/8 to G 3/4
External thread	"R" conical thread: Whitworth pipe thread DIN 2999-1 and ISO 7/1 R 1/8 to R 3/4. Dimensions constructed so with inner thread there can be pairing according to DIN ISO 228-1.
Internal thread	"M" cylindrical thread: Metric ISO thread M5
Internal thread	"G" cylindrical thread: Whitworth pipe thread DIN ISO 228-1 G 1/8 to G 1/2

OPERATING PRESSURE / TEMPERATURE

Metal version	PN	T _{min}	-40 °C	Means that the fitting can be used up to the given nominal pressure PN within the specified temperature range "T".
	50	T _{max}	+120 °C	
Permitted operating pressure and temperature of pipe/tube must be observed.				

THREAD SEAL

Cylindrical threaded nipple	Seal with sealing rings made of copper, fibre, aluminium, polyamide or hard PVC		
Conical threaded nipple	"G" cylindrical thread: Whitworth pipe thread DIN ISO 228-1 G 1/8 to G 3/4 <table border="1"> <tr> <td>Option: "D" self-sealing</td><td>Seal with sealant Film with non-reactive mineral solid materials, non-adhesive. Resistant to air, water, motor oils etc.</td></tr> </table>	Option: "D" self-sealing	Seal with sealant Film with non-reactive mineral solid materials, non-adhesive. Resistant to air, water, motor oils etc.
Option: "D" self-sealing	Seal with sealant Film with non-reactive mineral solid materials, non-adhesive. Resistant to air, water, motor oils etc.		

"POSITIONABLE" VERSION

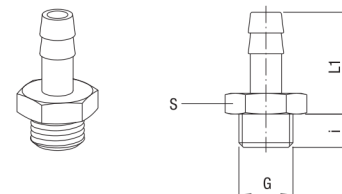
Reducer nipple type 232 see "Reducer - Positionable"	<table border="1"> <tr> <td>Not suitable for rotating or oscill. movements.</td><td>This nipple is 360°-positionable to facilitate adjustment during assembly.</td></tr> </table>	Not suitable for rotating or oscill. movements.	This nipple is 360°-positionable to facilitate adjustment during assembly.
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Hosetail Adaptor

Price group	16	PN 50	Cylindrical thread	T_{min} -40 °C T_{max} +120 °C	Nickel-plated brass
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for tube LW	G	i	L1	S	Weight in [g]	Type	Order number	Price
1.6 - 2	M 5	4	12	8	2	260M-2-M5	250150	o. r.
2.7 - 3	M 5	4	12	8	2.2	260M-3-M5	250151	o. r.
3.5 - 4	M 5	4	12	8	2.6	260M-4-M5	250152	o. r.
5 - 6	G 1/8	6	24	13	10.9	260M-7-1/8	250169	o. r.
5 - 6	G 1/4	8	24.5	17	18.4	260M-7-1/4	250170	o. r.
6 - 7	G 1/8	6	24	13	20.7	260M-8-1/8	250178	o. r.
6 - 7	G 1/4	8	24.5	17	19.2	260M-8-1/4	250179	o. r.
7 - 8	G 1/8	6	24	13	11.4	260M-9-1/8	250187	o. r.
7 - 8	G 1/4	8	24.5	17	19.3	260M-9-1/4	250188	o. r.
7 - 8	G 3/8	9	24.5	19	24.5	260M-9-3/8	250189	o. r.
9 - 10	G 1/4	8	24.5	17	19.9	260M-10-1/4	250194	o. r.
10 - 11	G 1/4	8	24.5	17	21.1	260M-12-1/4	250206	o. r.
10 - 11	G 3/8	9	24.5	19	25.8	260M-12-3/8	250207	o. r.
10 - 11	G 1/2	10	25	24*	42.2	260M-12-1/2	250208	o. r.
12 - 13	G 1/4	8	24.5	17	24.5	260M-14-1/4	250210	o. r.
12 - 13	G 3/8	9	24.5	19	29.3	260M-14-3/8	250211	o. r.
12 - 13	G 1/2	10	25	24*	39.1	260M-14-1/2	250212	o. r.
15 - 16	G 3/8	9	29	19	34.6	260M-17-3/8	250217	o. r.
15 - 16	G 1/2	10	29.5	24*	47.5	260M-17-1/2	250218	o. r.
18 - 19	G 1/2	10	29.5	24*	44.7	260M-20-1/2	250222	o. r.

Illustration

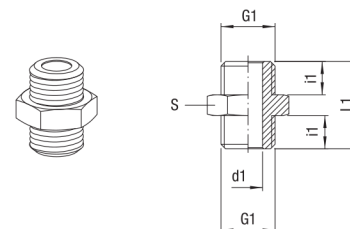


Double Nipple

Price group	16	PN 50	T_{min} -40 °C T_{max} +120 °C	Cylindrical thread	Nickel-plated brass
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G1	i1	L1	d1	S	Weight in [g]	Type	Order number	Price
M 5	4	11.5	2	8	2.4	250M-M5	250251	o. r.
G 1/8	6	16.5	5	13	9.2	250M-1/8	250253	o. r.
G 1/4	8	21	7	17	19.1	250M-1/4	250257	o. r.
G 3/8	9	23	10	19	26	250M-3/8	250260	o. r.
G 1/2	10	25.5	13	24*	44.3	250M-1/2	250262	o. r.

Illustration

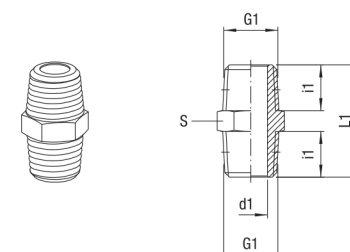


Double Nipple

Price group	16	PN 50	T_{min} -40 °C T_{max} +120 °C	Conical thread	Thread self-sealing by pre-coating "D"	Option "D" T_{max} +100 °C	Nickel-plated brass
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G1	i1	L1	d1	S	self-sealing "D"	Weight in [g]	Type	Order number	Price
R 1/8	7.5	19.5	5.5	10	-	7.5	250M-1/8K	250353	o. r.
R 1/8	7.5	19.5	5.5	10	D	7.7	250M-D1/8K	260353	o. r.
R 1/4	11	27	8.2	14	-	16.8	250M-1/4K	250357	o. r.
R 1/4	11	27	8.2	14	D	20.1	250M-D1/4K	260357	o. r.
R 3/8	11.5	28	11	17	-	26.2	250M-3/8K	250360	o. r.
R 3/8	11.5	28	11	17	D	26.4	250M-D3/8K	260360	o. r.
R 1/2	14	33.5	15	22	-	41.6	250M-1/2K	250362	o. r.
R 1/2	14	33.5	15	22	D	42.1	250M-D1/2K	260362	o. r.
R 3/4	16	39	19	27	-	84	250M-3/4K	250364	o. r.

Illustration

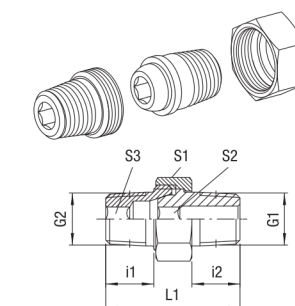


Double Nipple - Union

Price group	16	PN 16	T_{min} -40 °C T_{max} +120 °C	Conical thread	Nickel-plated brass
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G1+G2	i1	i2	L1	S1	S2	S3	Weight in [g]	Type	Order number	Price
R 1/8	9	9	27.5	15	5	5	17.1	230M-1/8K	319903	o. r.
R 1/4	12	12	34	19	6	6	35	230M-1/4K	319907	o. r.
R 3/8	13	13	37	22	8	8	53.8	230M-3/8K	319910	o. r.
R 1/2	15.5	16	44.5	27	12	12	87.4	230M-1/2K	319912	o. r.

Illustration

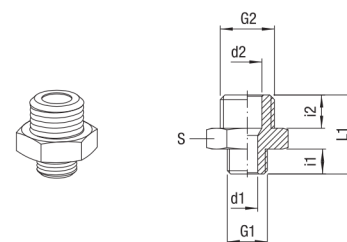


* S24 = octagon

Double Reducing Nipple

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Cylindrical thread M,G								Nickel-plated brass
G1	G2	i1	i2	L1	d1	d2	S	Weight in [g]	Type	Order number	Price	
M 5	G 1/8	4	6	14.5	2	5	13	7.7	251M-M5-1/8	250452	o. r.	
G 1/8	G 1/4	6	8	19	5	7	17	16.6	251M-1/8-1/4	250454	o. r.	
G 1/8	G 3/8	6	9	20	5	9.5	19	22	251M-1/8-3/8	250455	o. r.	
G 1/8	G 1/2	6	10	21.5	5	14	24*	32.6	251M-1/8-1/2	250456	o. r.	
G 1/4	G 3/8	8	9	22	7	10	19	24.1	251M-1/4-3/8	250458	o. r.	
G 1/4	G 1/2	8	10	23.5	7	14	24*	34.3	251M-1/4-1/2	250459	o. r.	
G 3/8	G 1/2	9	10	24.5	10	14	24*	36.5	251M-3/8-1/2	250461	o. r.	

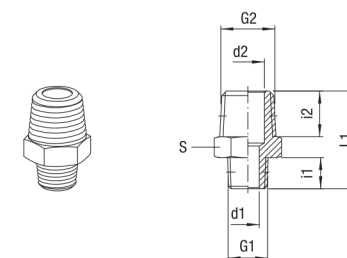
Illustration



Double Reducer Nipple

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Conical thread								Nickel-plated brass
G1	G2	i1	i2	L1	d1	d2	S	Weight in [g]	Type	Order number	Price	
R 1/8	R 1/4	7.5	11	23.5	5.5	8.2	14	14.3	251M-1/8K-1/4K	250554	o. r.	
R 1/8	R 3/8	7.5	11.5	24	5.5	11	17	21.1	251M-1/8K-3/8K	250555	o. r.	
R 1/8	R 1/2	7.5	14	27	5.5	15	22	33.7	251M-1/8K-1/2K	250556	o. r.	
R 1/4	R 3/8	11	11.5	27.5	8.2	11	17	23	251M-1/4K-3/8K	250558	o. r.	
R 1/4	R 1/2	11	14	30.5	8.2	15	22	36.5	251M-1/4K-1/2K	250559	o. r.	
R 3/8	R 1/2	11.5	14	31	11	15	22	39.5	251M-3/8K-1/2K	250561	o. r.	
R 1/2	R 3/4	14	16	37	15	19	27	69.4	251M-1/2K-3/4K	250563	o. r.	

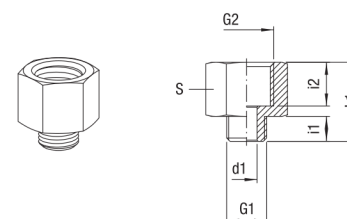
Illustration



Reducer

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Cylindrical thread M,G							Nickel-plated brass
G1	G2	i1	i2	L1	d1	S	Weight in [g]	Type	Order number	Price	
M5	M 5	4	5	11	2	8	2.9	252M-M5-M5	250651	o. r.	
M5	G 1/8	4	7	14	2	13	8.3	252M-M5-1/8	250652	o. r.	
G 1/8	G 1/8	6	7	16	6	13	8.8	252M-1/8-1/8	250653	o. r.	
G 1/8	G 1/4	6	9	19	6	17	17.3	252M-1/8-1/4	250654	o. r.	
G 1/8	G 3/8	6	10	20	6	19	17.6	252M-1/8-3/8	250655	o. r.	
G 1/8	G 1/2	6	13.5	24	6	24*	32.8	252M-1/8-1/2	250656	o. r.	
G 1/4	G 1/4	8	9	21	8	17	19.5	252M-1/4-1/4	250657	o. r.	
G 1/4	G 3/8	8	10	22	8	19	20.4	252M-1/4-3/8	250658	o. r.	
G 1/4	G 1/2	8	13.5	26	8	24*	34.2	252M-1/4-1/2	250659	o. r.	
G 3/8	G 3/8	9	10	23	12	19	20.4	252M-3/8-3/8	250660	o. r.	
G 3/8	G 1/2	9	13.5	27	12	24*	38.7	252M-3/8-1/2	250661	o. r.	
G 1/2	G 1/2	10	13.5	28	14	24*	39.7	252M-1/2-1/2	250662	o. r.	

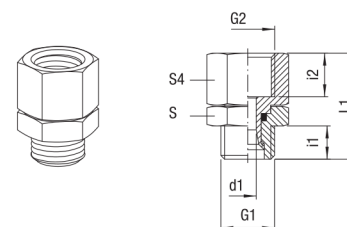
Illustration



Reducer - Positionable

Price group	16	PN 16	T _{min} -20 °C T _{max} +80 °C	Cylindrical thread G	Sealing ring: NBR	not suitable for rotating or oscill. movements					Nickel-plated brass	
G1	G2	i1	i2	L1	d1	S4	S	Weight in [g]	Type	Order number	Price	
G 1/8	G 1/8	6	7	20.6	4	13	13	13.6	232M-1/8-1/8	320003	o. r.	
G 1/4	G 1/4	8	9	25.7	6.5	17	17	27.4	232M-1/4-1/4	320007	o. r.	
G 3/8	G 3/8	9	10	27.7	8.6	19	19	32.3	232M-3/8-3/8	320010	o. r.	

Illustration



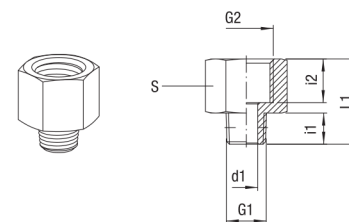
* S24 = octagon

Reducer

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Thread R conical, thread G cylindr.	Nickel-plated brass
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G1	G2	i1	i2	L1	d1	S	Weight in [g]	Type	Order number	Price
R 1/8	G 1/8	7.5	7	17.5	5.5	13	9.6	252M-1/8K-1/8	250753	o. r.
R 1/8	G 1/4	7.5	9	20.5	5.5	17	18.5	252M-1/8K-1/4	250754	o. r.
R 1/8	G 3/8	7.5	10	21.5	5.5	19	19	252M-1/8K-3/8	250755	o. r.
R 1/8	G 1/2	7.5	13.5	25.5	5.5	24*	33.7	252M-1/8K-1/2	250756	o. r.
R 1/4	G 1/4	11	9	24	8.2	17	21.2	252M-1/4K-1/4	250757	o. r.
R 1/4	G 3/8	11	10	25	8.2	19	21.6	252M-1/4K-3/8	250758	o. r.
R 1/4	G 1/2	11	13.5	29	8.2	24*	36.7	252M-1/4K-1/2	250759	o. r.
R 3/8	G 3/8	11.5	10	25.5	11	19	24	252M-3/8K-3/8	250760	o. r.
R 3/8	G 1/2	11.5	13.5	29.5	11	24*	39.4	252M-3/8K-1/2	250761	o. r.
R 1/2	G 1/2	14	13.5	32	15	24*	44.3	252M-1/2K-1/2	250762	o. r.

Illustration

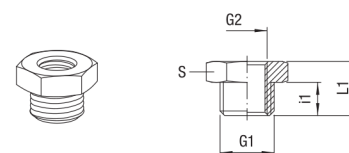


Reducer

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Cylindrical thread	Nickel-plated brass
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G1	G2	i1	L1	S	Weight in [g]	Type	Order number	Price
G 1/8	M5	6	10.5	13	7.3	253M-1/8-M5	250852	o. r.
G 1/4	G 1/8	8	13	17	10.6	253M-1/4-1/8	250854	o. r.
G 3/8	G 1/8	9	14	19	19.5	253M-3/8-1/8	250855	o. r.
G 1/2	G 1/8	10	15.5	24*	37.4	253M-1/2-1/8	250856	o. r.
G 3/8	G 1/4	9	14	19	12.6	253M-3/8-1/4	250858	o. r.
G 1/2	G 1/4	10	15.5	24*	30.7	253M-1/2-1/4	250859	o. r.
G 1/2	G 3/8	10	15.5	24*	20.6	253M-1/2-3/8	250861	o. r.

Illustration

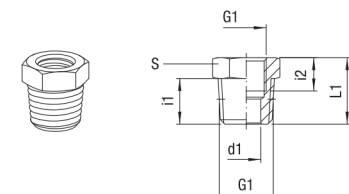


Reducer

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Thread R conical, thread G cylindr.	Option "D" self-sealing	Option "D" T _{max} +100 °C	Nickel-plated brass
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G1	G2	i1	i2	L1	d1	S	Option "D"	Weight in [g]	Type	Order number	Price
R 1/4	G 1/8	11	7.5	16	8.6	14	-	9.4	253M-1/4K-1/8	250954	o. r.
R 1/4	G 1/8	11	7.5	16	8.6	14	D	9	253M-D1/4K-1/8	260954	o. r.
R 3/8	G 1/8	11.5	7.5	16.5	8.6	17	-	20.6	253M-3/8K-1/8	250955	o. r.
R 3/4	G 1/8	11.5	7.5	16.5	8.6	17	D	20.7	253M-D3/8K-1/8	250985	o. r.
R 1/2	G 1/8	14	7.5	19.5	8.6	22	-	45.5	253M-1/2K-1/8	250956	o. r.
R 3/8	G 1/4	11.5	9	16.5	8.7	17	-	15.2	253M-3/8K-1/4	250958	o. r.
R 3/8	G 1/4	11.5	9	16.5	8.7	17	D	16.3	253M-D3/8K-1/4	260958	o. r.
R 1/2	G 1/4	14	11.5	19.5	11.5	22	-	35.9	253M-1/2K-1/4	250959	o. r.
R 1/2	G 3/8	14	11.5	19.5	15	22	-	23.7	253M-1/2K-3/8	250961	o. r.
R 1/2	G 3/8	14	11.5	19.5	15	22	D	23.7	253M-D1/2K-3/8	260961	o. r.
R 3/4	G 1/2	16	13.5	23	18.8	27	-	45	253M-3/4K-1/2	250963	o. r.

Illustration

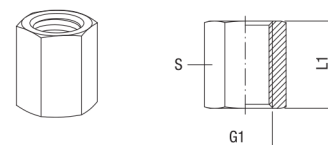


Socket

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Cylindrical thread	Nickel-plated brass
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G1	L1	S	Weight in [g]	Type	Order number	Price
M 5	10	8	3.3	254M-M5	251051	o. r.
G 1/8	15	13	9.7	254M-1/8	251053	o. r.
G 1/4	21	17	22.3	254M-1/4	251057	o. r.
G 3/8	23	19	21.3	254M-3/8	251060	o. r.
G 1/2	30	24*	39.3	254M-1/2	251062	o. r.

Illustration



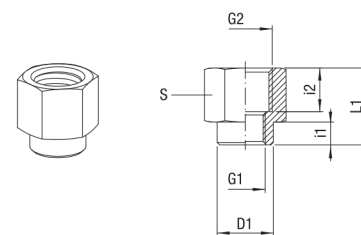
* S24 = octagon

Reducing Socket

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Cylindrical thread	Nickel-plated brass
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G1	G2	i1	i2	L1	D1	S	Weight in [g]	Type	Order number	Price
M5	G 1/8	3	7	13	8	13	8.2	255M-M5-1/8	251152	o. r.
G 1/8	G 1/4	5.5	9	18.5	13.5	17	18.2	255M-1/8-1/4	251154	o. r.
G 1/8	G 3/8	5.5	10	19.5	13.5	19	18.7	255M-1/8-3/8	251155	o. r.
G 1/8	G 1/2	5	13.5	23	13.5	24*	33.9	255M-1/8-1/2	251156	o. r.
G 1/4	G 3/8	8	10	22	17	19	21.3	255M-1/4-3/8	251158	o. r.
G 1/4	G 1/2	7.5	13.5	25.5	17	24*	34.3	255M-1/4-1/2	251159	o. r.
G 3/8	G 1/2	8.5	13.5	26.5	21	24*	37.4	255M-3/8-1/2	251161	o. r.

Illustration

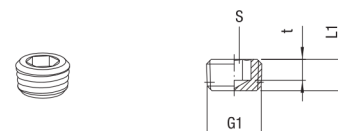


Blind Plug

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Conical thread	Brass
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G1	L1	t	S	Weight in [g]	Type	Order number	Price
R 1/8	5	3	5	1.9	257U-1/8K	251303	o. r.
R 1/4	7.5	5	7	5	257U-1/4K	251307	o. r.
R 3/8	8	5	8	10.1	257U-3/8K	251310	o. r.
R 1/2	9	5	10	17.3	257U-1/2K	251312	o. r.
R 3/4	10	7	12	31.1	257U-1/2K	251314	o. r.

Illustration

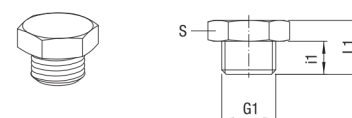


Plug

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Cylindrical thread	Nickel-plated brass
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G1	i1	L1	S	Weight in [g]	Type	Order number	Price
M 5	4	7.5	8	2.2	261M-M5	251401	o. r.
G 1/8	6	10.5	13	7.6	261M-1/8	251403	o. r.
G 1/4	8	13	17	14.9	261M-1/4	251407	o. r.
G 3/8	9	14	19	20.6	261M-3/8	251410	o. r.
G 1/2	10	15.5	24*	32.8	261M-1/2	251412	o. r.

Illustration

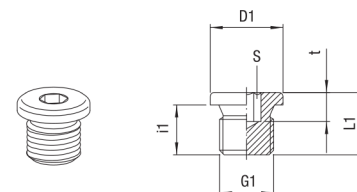


* S24 = octagon

Plug with Internal Hexagon - DIN 908

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Cylindrical thread				Nickel-plated steel		Brass
G1	i1	L1	D1	t	S	Weight in [g]	Type	Order number	Price	
G 1/8	8	11	14	5	5	6.6	262U-1/8	251553	o. r.	
G 1/4	12	15	17.5	7	6	14.6	262U-1/4	251557	o. r.	
G 3/8	12	15	22	7.5	8	22.7	262U-3/8	251560	o. r.	

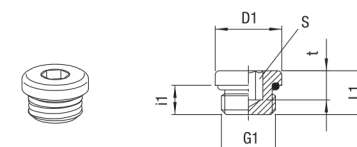
Illustration



Plug with Internal Hexagon

Price group	16	PN 25	T _{min} -20 °C T _{max} +80 °C	Cylindrical thread	Sealing thread NBR					Nickel-plated brass
G1	i1	L1	D1	t	S	Weight in [g]	Type	Order number	Price	
M5	3.5	6.7	7.9	2	3	2	262M-M5B	251533	o. r.	
G 1/8	5	8	13	4	5	4.5	262M-1/8B	251543	o. r.	
G 1/4	7	10.5	16	5.5	6	9.9	262M-1/4B	251549	o. r.	
G 3/8	8	11.5	20	6	8	17.2	262M-3/8B	251547	o. r.	
G 1/2	9	13	25	6	10	31.1	262M-1/2B	251545	o. r.	

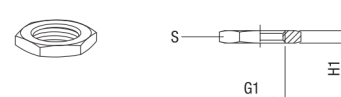
Illustration



Lock Nut

Price group	16	T _{min} -40 °C T _{max} +120 °C	Cylindrical thread M,G	Nickel-plated brass		
G1	H1	S	Weight in [g]	Type	Order number	Price
M7x0.75	2	10	0.9	256M-M7x0.75	251701	o. r.
M10x1	2.5	13	1.6	256M-M10x1	251702	o. r.
M12x1	3	17	3.7	256M-M12x1	251703	o. r.
M14x1	3	17	2.6	256M-M14x1	251704	o. r.
M16x1	3.5	19	3.5	256M-M16x1	251705	o. r.
M20x1	4	24*	5.7	256M-M20x1	251706	o. r.
M20x1.5	4	24*	5.9	256M-M20x1.5	251707	o. r.
G 1/8	3.6	13	2.3	256M-1/8	251708	o. r.
G 1/4	4	17	4.2	256M-1/4	251709	o. r.
G 3/8	4.5	22	8.1	256M-3/8	251710	o. r.
G 1/2	5	24*	6.5	256M-1/2	251711	o. r.

Illustration

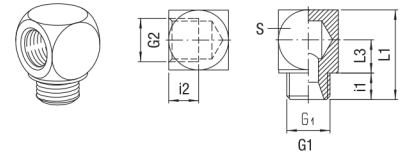


* S24 = octagon

90° Elbow Compact

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Cylindrical thread	Nickel-plated brass					
G1	G2	i1	i2	L1	L3	S	Weight in [g]	Type	Order number	Price
M 5	M 5	4	4.5	13	4.5	9	5.2	302M-M5	254021	o. r.
G 1/8	G 1/8	6	7	21	8	14	18.5	302M-1/8	254031	o. r.
G 1/4	G 1/4	8	9	27	10	18	38.6	302M-1/4	254032	o. r.

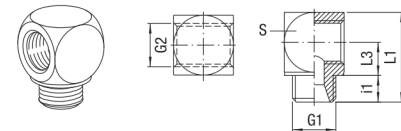
Illustration



T-Piece - Compact

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Cylindrical thread				Nickel-plated brass	
G1	G2	i1	L1	L3	S	Weight in [g]	Type	Order number	Price
M 5	M 5	4	13	4.5	9	4.7	306M-M5	254071	o. r.
G 1/8	G 1/8	6	21	8	14	16.5	306M-1/8	254081	o. r.
G 1/4	G 1/4	8	27	10	18	34.5	306M-1/4	254082	o. r.

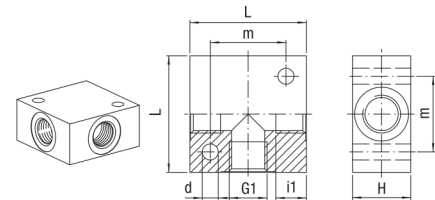
Illustration



Cross-Manifold

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Cylindrical thread	Aluminium bright	Nickel-plated brass				
G1	material	i1	L	m	d	H	Weight in [g]	Type	Order number	Price
M 5	Nickel-plated brass	5	18	11	3.3	10	21.3	303M-M5	254221	o. r.
G 1/8	Aluminium alloy	6.5	25	17	4.5	16	17.6	303A-1/8	254211	o. r.
G 1/4	Aluminium alloy	10.5	40	26	5.5	20	63.6	303A-1/4	254212	o. r.
G 3/8	Aluminium alloy	11.5	50	34	5.5	26	130	303A-3/8	254213	o. r.
G 1/2	Aluminium alloy	13.5	50	34	5.5	32	148	303A-1/2	254214	o. r.

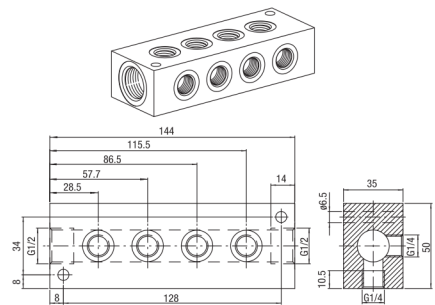
Illustration



Manifold

Price group	16	PN 25	T _{min} -40 °C T _{max} +120 °C	Cylindrical thread	Aluminium bright		
Connector inlet		Connector outlet		Weight in [g]	Type	Order number	Price
G 1/2		G 1/4		545	383A-1/2-1/4	255859	o. r.

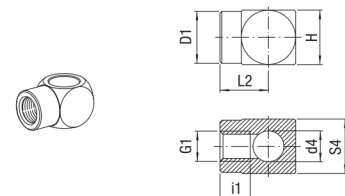
Illustration



Banjo Ring Piece

Price group	16	PN 16	T _{min} -20 °C T _{max} +80 °C	Cylindrical thread					Nickel-plated brass		
G1	for hollow screw	i1	L2	H	D1	d4	S4	Weight in [g]	Type	Order number	Price
M 5	M 5	5	8	8.6	8.6	5.1	9	5	322M-M5S-M5	254321	o. r.
G 1/8	G1/8 M10	7	15	14	13.5	10.1	14	17.1	322M-1/8S-1/8	254331	o. r.

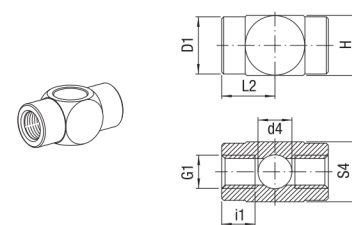
Illustration



T-Banjo Ring Piece

Price group	16	PN 16	T _{min} -20 °C T _{max} +80 °C	Cylindrical thread	Nickel-plated brass						
G1	for hollow screw	i1	L2	H	D1	d4	S4	Weight in [g]	Type	Order number	Price
M 5	M5	5	8	9	8.6	5.1	9	6	326M-M5S-M5	254421	o. r.
G 1/8	G1/8 M10	7	15	14	13.5	10.1	14	21.6	326M-1/8S-1/8	254431	o. r.

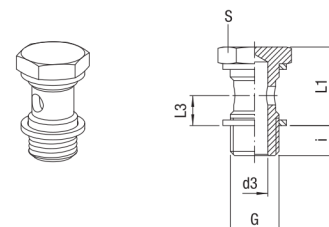
Illustration



Banjo Bolt - Short

Price group	16	PN 16	T _{min} -20 °C T _{max} +80 °C	Cylindrical thread		Nickel-plated brass					
G	Sealing rings	i*	L1*	L3*	d3	S	Weight in [g]	Type	Order number	Price	
M 5	Polyamide	4.5	13.5	5	2	8	3.1	163M-11-M5N	304002	o. r.	
M 10x1	Aluminium	6.5	20.5	8	5	13	12.8	163M-11-M10x1A	304005	o. r.	
M 10x1	Polyamide	6.5	20.5	8	5	13	12.6	163M-11-M10x1N	304006	o. r.	
G 1/8	Aluminium	6	20.5	8	5	14	13.1	163M-11-1/8A	304025	o. r.	
G 1/8	Polyamide	6	20.5	8	5	14	13	163M-11-1/8N	304026	o. r.	
G 1/4	Aluminium	8	21	8	7	17	23.9	163M-11-1/4A	304029	o. r.	
G 1/4	Polyamide	8	21	8	7	17	23.5	163M-11-1/4N	304030	o. r.	
G 3/8	Aluminium	9	22	8.5	9.5	19	35.8	163M-11-3/8A	304033	o. r.	
G 3/8	Polyamide	9	22	8.5	9.5	19	35.3	163M-11-3/8N	304034	o. r.	
G 1/2	Aluminium	9.5	22	8.5	12	27	65.1	163M-11-1/2A	304037	o. r.	
G 1/2	Polyamide	9.5	22	8.5	12	27	64.8	163M-11-1/2N	304038	o. r.	

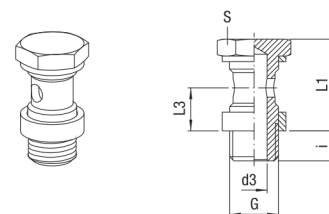
Illustration



Banjo Bolt - Long

Price group	16	PN 16	T _{min} -20 °C T _{max} +80 °C	Cylindrical thread							Nickel-plated brass	
G	Sealing rings	i*	L1*	L3*	d3	S	Weight in [g]	Type	Order number	Price		
G 1/8	Polyamide	6.5	24	11.5	5	14	14.8	163M-15-1/8N	304226	o. r.		
G 1/4	Polyamide	8	24.5	11.5	7	17	26.9	163M-15-1/4N	304230	o. r.		
G 3/8	Polyamide	9	25.5	12	9.5	19	40.6	163M-15-3/8N	304234	o. r.		
G 1/2	Polyamide	10	25.5	12	12	27	72.3	163M-15-1/2N	304238	o. r.		

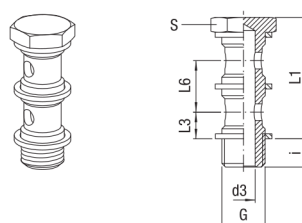
Illustration



Banjo Bolt - Double Stacking - Short

Price group	16	PN 16	T _{min} -20 °C T _{max} +80 °C	Cylindrical thread	Nickel-plated brass						
G	Sealing rings	i*	L1*	L3*	L6	d3	S	Weight in [g]	Type	Order number	Price
G 1/8	Aluminium	6.5	36	8	15.5	5	14	18.3	163M-21-1/8A	304425	o. r.
G 1/8	Polyamide	6.5	36	8	15.5	5	14	17.8	163M-21-1/8N	304426	o. r.
G 1/4	Aluminium	8.5	36.5	8	15.5	7	17	33.6	163M-21-1/4A	304429	o. r.
G 1/4	Polyamide	8.5	36.5	8	15.5	7	17	33.1	163M-21-1/4N	304430	o. r.
G 3/8	Aluminium	8.5	37.5	8.5	15.5	9.5	19	49.1	163M-21-3/8A	304433	o. r.
G 3/8	Polyamide	8.5	37.5	8.5	15.5	9.5	19	48.3	163M-21-3/8N	304434	o. r.
G 1/2	Aluminium	9.5	37.5	8.5	15.5	12	27	85.8	163M-21-1/2A	304437	o. r.
G 1/2	Polyamide	9.5	37.5	8.5	15.5	12	27	85.3	163M-21-1/2N	304438	o. r.

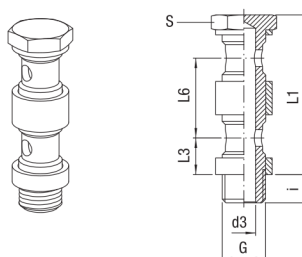
Illustration



Banjo Bolt - Double Stacking - Long

Price group	16	PN 16	T _{min} -20 °C T _{max} +80 °C	Cylindrical thread	Nickel-plated brass						
G	Sealing rings	i*	L1	L3*	L6	d3	S	Weight in [g]	Type	Order number	Price
G 1/8	Polyamide	6.5	47	10.5	24	5	14	23.7	163M-25-1/8N	304626	o. r.
G 1/4	Polyamide	8.5	48	11	24	7	17	43.9	163M-25-1/4N	304630	o. r.
G 3/8	Polyamide	8.5	49.5	12	24	9.5	19	64.7	163M-25-3/8N	304634	o. r.
G 1/2	Polyamide	9.5	49.5	12	24	12	27	112.1	163M-25-1/2N	304638	o. r.

Illustration

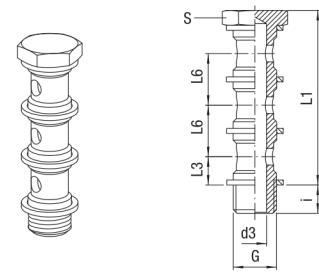


* Approximate dimension with tightened screw connection

Banjo Bolt - Triple Stacking - Short

Price group	16	PN 16	T _{min} -20 °C T _{max} +80 °C	Cylindrical thread					Nickel-plated brass		
G	Sealing rings	i*	L1*	L3*	L6	d3	S	Weight in [g]	Type	Order number	Price
G 1/8	Aluminium	6.5	51	7.5	15.5	5	14	23.2	163M-31-1/8A	304825	o. r.
G 1/8	Polyamide	6.5	51	7.5	15.5	5	14	22.6	163M-31-1/8N	304826	o. r.
G 1/4	Aluminium	8.5	51.5	7.5	15.5	7	17	42	163M-31-1/4A	304829	o. r.
G 1/4	Polyamide	8.5	51.5	7.5	15.5	7	17	42.3	163M-31-1/4N	304830	o. r.
G 3/8	Aluminium	8.5	53.5	9	15.5	9.5	19	62.9	163M-31-3/8A	304833	o. r.
G 3/8	Polyamide	8.5	53.5	9	15.5	9.5	19	61.8	163M-31-3/8N	304834	o. r.
G 1/2	Aluminium	9.5	53.5	9	15.5	12	27	109.7	163M-31-1/2A	304837	o. r.
G 1/2	Polyamide	9.5	53.5	9	15.5	12	27	108.9	163M-31-1/2N	304838	o. r.

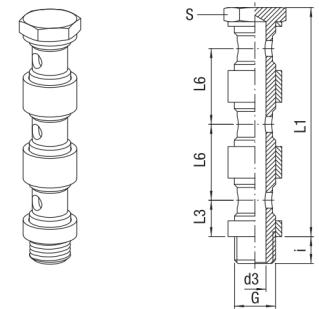
Illustration



Banjo Bolt - Triple Stacking - Long

Price group	16	PN 16	T _{min} -20 °C T _{max} +80 °C	Cylindrical thread								Nickel-plated brass
G	Sealing rings	i*	L1*	L3*	L6	d3	S	Weight in [g]	Type	Order number	Price	
G 1/8	Polyamide	6.5	71.5	11	24	5	14	32.3	163M-35-1/8N	305026	o. r.	
G 1/4	Polyamide	8	72	11	24	7	17	59.8	163M-35-1/4N	305030	o. r.	
G 3/8	Polyamide	8.5	74	12.5	24	9.5	19	88.4	163M-35-3/8N	305034	o. r.	
G 1/2	Polyamide	9.5	74	12.5	24	12	27	153	163M-35-1/2N	305038	o. r.	

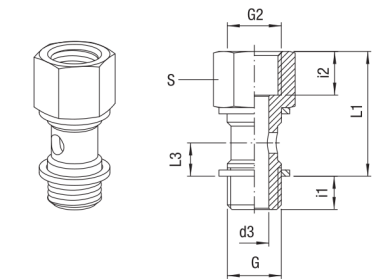
Illustration



Banjo Bolt with Top Port - Short

Price group	16	PN 16	T _{min} -20 °C T _{max} +80 °C	Cylindrical thread	* = approximate for fastened fitting with ring pieces				Nickel-plated brass		
G	Sealing rings	i1*	i2	L1*	L3*	d3	S	Weight in [g]	Type	Order number	Price
G 1/8	Aluminium	6.5	7	27	8	5	14	17.3	164M-11-1/8A	305225	o. r.
G 1/8	Polyamide	6.5	7	27	8	5	14	17	164M-11-1/8N	305226	o. r.
G 1/4	Aluminium	8	9	30	8	7	17	30.8	164M-11-1/4A	305229	o. r.
G 1/4	Polyamide	8	9	30	8	7	17	30.5	164M-11-1/4N	305230	o. r.

Illustration



* Approximate dimension with tightened screw connection