

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 50 T_{min} -40 °C T_{max} +120 °C Means that the fitting can be used up to the given nominal pressure PN within the specified temperature range "T".
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
	Option: "D" self-sealing Seal with sealant Film with non-reactive mineral solid materials, non-adhesive. Resistant to air, water, motor oils etc.

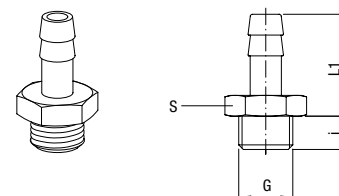
"POSITIONABLE" VERSION

Reducer nipple type 232 see "Reducer - Positionable"	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	$T_{min} -40\text{ °C}$ $T_{max} +120\text{ °C}$	Nickel-plated brass				
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.	

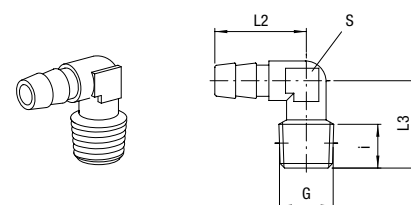
Illustration



90° Elbow Hosetail Adaptor

Price group	16	PN 50	$T_{min} -40\text{ °C}$ $T_{max} +120\text{ °C}$	Conical thread	Nickel-plated brass				
for tube LW	G	i	L2	L3	S	Weight in [g]	Type	Order number	Price
6 - 7	R 1/8	7.5	22	17	10	13.4	270M-8-1/8K	251778	o. r.
7 - 8	R 1/8	7.5	22	17	10	13.7	270M-9-1/8K	251787	o. r.

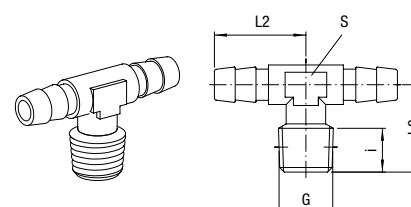
Illustration



T-Hosetail Adaptor

Price group	16	PN 50	$T_{min} -40\text{ °C}$ $T_{max} +120\text{ °C}$	Conical thread	Nickel-plated brass				
for tube LW	G	i	L2	L3	S	Weight in [g]	Type	Order number	Price
6 - 7	R 1/8	7.5	22	17	10	18.3	271M-8-1/8K	251878	o. r.

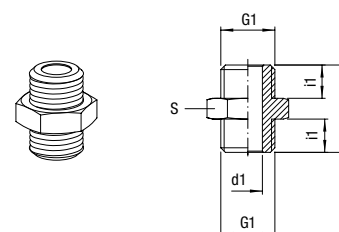
Illustration



Double Nipple

Price group	16	PN 50	$T_{min} -40\text{ °C}$ $T_{max} +120\text{ °C}$	Cylindrical thread	Nickel-plated brass				
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

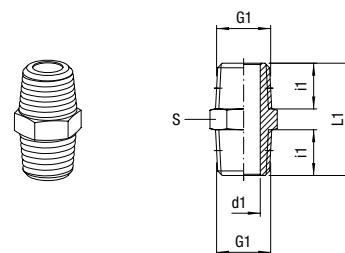


* S24 = octagon

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			
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.	

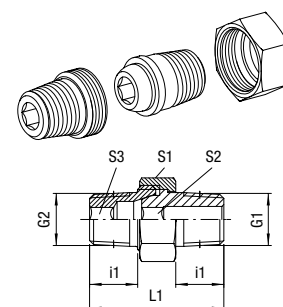
Illustration



Double Nipple - Union

Price group	16	PN 16	T _{min} -40 °C T _{max} +120 °C	Conical thread	Nickel-plated brass					
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.

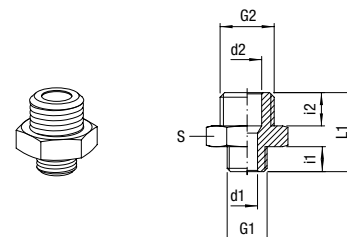
Illustration



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.	

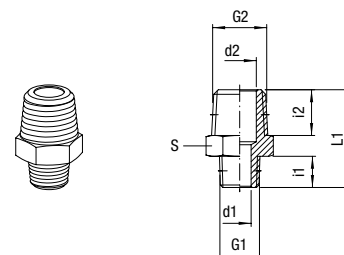
Illustration



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 [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

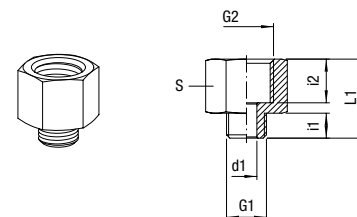


* S24 = octagon

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.

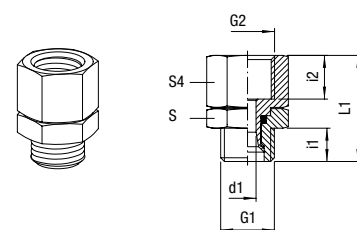
Illustration



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.	

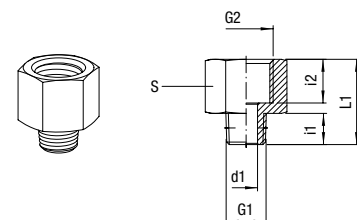
Illustration



Reducer

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Thread R conical, thread G cylindr.	Nickel-plated brass					
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.

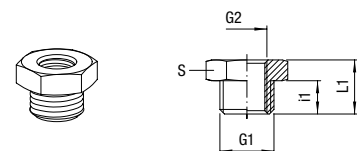
Illustration



Reducer

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Cylindrical thread					Nickel-plated brass
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

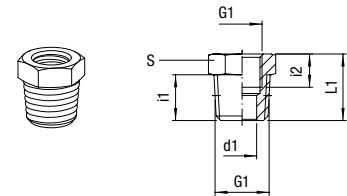


* S24 = octagon

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				
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.

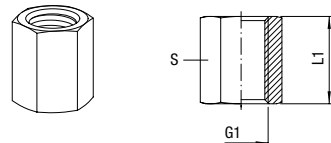
Illustration



Socket

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Cylindrical thread	Nickel-plated brass						
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.					

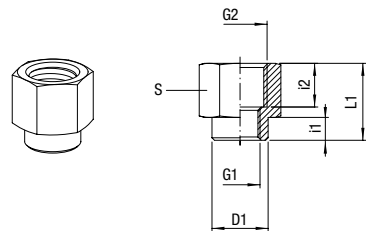
Illustration



Reducing Socket

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Cylindrical thread	Nickel-plated brass						
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.	

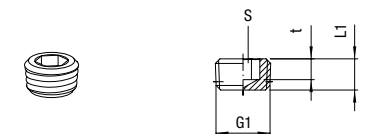
Illustration



Blind Plug

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Conical thread	Brass						
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.				

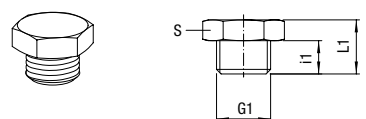
Illustration



Plug

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Cylindrical thread	Nickel-plated brass						
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

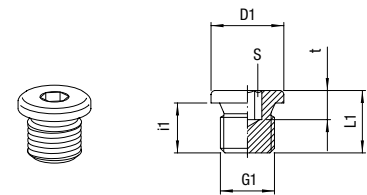


* S24 = octagon

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.

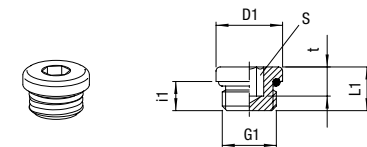
Illustration



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.	

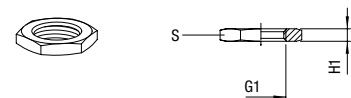
Illustration



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.

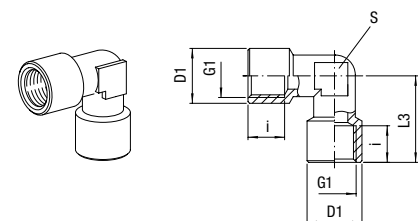
Illustration



90° Elbow

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Cylindrical thread					Nickel-plated brass
G1	i	L3	D1	S	Weight in [g]	Type	Order number	Price	
G 1/8	7	21	13	10	21	201M-1/8	252003	o. r.	
G 1/4	9	26	17	13	40.4	201M-1/4	252007	o. r.	
G 3/8	10.5	28	21	17	60	201M-3/8	252010	o. r.	
G 1/2	15	35	26.5	21	104	201M-1/2	252012	o. r.	
G 3/4	16.5	36.5	32	25	145	201M-3/4	252014	o. r.	
G 1	19	45	39	30	245	201M-1	252016	o. r.	

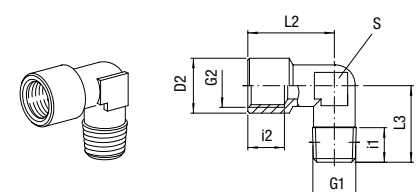
Illustration



90° Elbow

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Thread R conical, thread G cylindr.							Nickel-plated brass	
G1	G2	i1	i2	L2	L3	D2	S	Weight in [g]	Type	Order number	Price	
R 1/8	G 1/8	8	7	21	18.5	13	10	16.4	202M-1/8K-1/8	252053	o. r.	
R 1/4	G 1/4	11	10.5	26	23	17	13	35.6	202M-1/4K-1/4	252057	o. r.	
R 3/8	G 3/8	11.5	11.5	28	26	21	17	50	202M-3/8K-3/8	252060	o. r.	
R 1/2	G 1/2	14	15	33.5	31	26.5	21	87.5	202M-1/2K-1/2	252062	o. r.	
R 3/4	G 3/4	16	16.5	36.5	33	32	25	124	202M-3/4K-3/4	252064	o. r.	
R 1	G 1	17.5	19	45	39	39	30	154	202M-1K -1	252066	o. r.	

Illustration

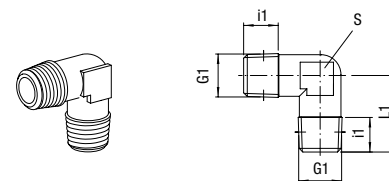


* S24 = octagon

90° Elbow

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Conical thread	Nickel-plated brass		
G1	i1	L1	S	Weight in [g]	Type	Order number	Price
R 1/8	7.5	19	10	12.6	204M-1/8K	252103	o. r.
R 1/4	11	23	13	27.9	204M-1/4K	252107	o. r.
R 3/8	11.5	26	17	41.3	204M-3/8K	252110	o. r.
R 1/2	14	31	21	71.6	204M-1/2K	252112	o. r.

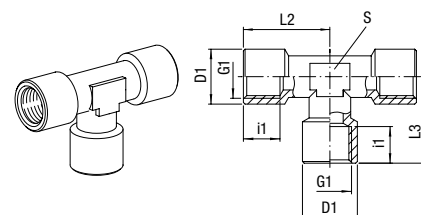
Illustration



T-Piece

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Cylindrical thread						Nickel-plated brass
G1	i1	L2	L3	D1	S	Weight in [g]	Type	Order number	Price	
G 1/8	7	21	21	13	10	28.5	200M-1/8	252153	o. r.	
G 1/4	9	26	26	17	13	56.5	200M-1/4	252157	o. r.	
G 3/8	10.5	28	28	21	17	84	200M-3/8	252160	o. r.	
G 1/2	15	33.5	33.5	26.5	21	145	200M-1/2	252162	o. r.	
G 3/4	16.5	36.5	36.5	32	25	193	200M-3/4	252164	o. r.	
G 1	19	45	45	39	30	330.2	200M-1	252166	o. r.	

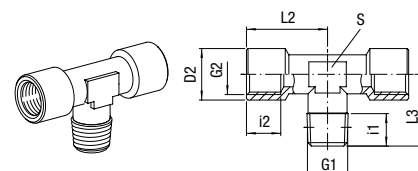
Illustration



T-Piece

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Thread R conical, thread G cylindr.							Nickel-plated brass	
G1	G2	i1	i2	L2	L3	D2	S	Weight in [g]	Type	Order number	Price	
R 1/8	G 1/8	8	8	21	18.5	14	10	24.7	206M-1/8K-1/8	252203	o. r.	
R 1/4	G 1/4	11	10.9	26	23	17	13	50.2	206M-1/4K-1/4	252207	o. r.	
R 3/8	G 3/8	11.5	11.5	28	26	21	17	74.5	206M-3/8K-3/8	252210	o. r.	
R 1/2	G 1/2	15	15	33.5	31	26.5	21	128	206M-1/2K-1/2	252212	o. r.	
R 3/4	G 3/4	16	16.5	36.5	33	32	25	175	206M-3/4K-3/4	252214	o. r.	
R 1	G 1	17.5	19	45	39	39	30	293	206M-1K-1	252216	o. r.	

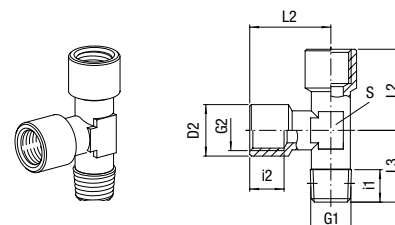
Illustration



T-Piece

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Thread R conical, thread G cylindr.								Nickel-plated brass	
G1	G2	i1	i2	L2	L3	D2	S	Weight in [g]	Type	Order number	Price		
R 1/8	G 1/8	9	8	21	18.5	13	10	24.9	207M-1/8K-1/8	252253	o. r.		
R 1/4	G 1/4	10.4	9	26	23	17	13	50.4	207M-1/4K-1/4	252257	o. r.		
R 3/8	G 3/8	11.5	10	28	26	21	17	74.6	207M-3/8K-3/8	252260	o. r.		
R 1/2	G 1/2	15	13.5	33.5	31	26.5	21	126.5	207M-1/2K-1/2	252262	o. r.		
R 3/4	G 3/4	16	16.5	36.5	33	32	25	177	207M-3/4K-3/4	252264	o. r.		
R 1	G 1	17.5	19	45	39	39	30	300	207M-1K- 1	252266	o. r.		

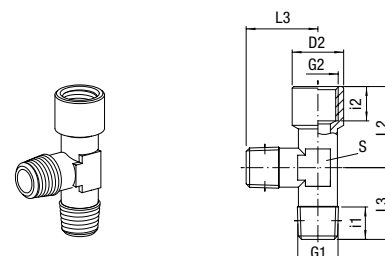
Illustration



T-Piece

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Thread R conical, thread G cylindr.						Nickel-plated brass		
G1	G2	i1	i2	L2	L3	D2	S	Weight in [g]	Type	Order number	Price	
R 1/8	G 1/8	8	8	21	18.5	13	10	21	205M-1/8K-1/8	252303	o. r.	
R 1/4	G 1/4	11	10.5	26	23	17	13	44.3	205M-1/4K-1/4	252307	o. r.	
R 3/8	G 3/8	11.5	10.5	28	26	21	17	64.4	205M-3/8K-3/8	252310	o. r.	
R 1/2	G 1/2	14	15	33.5	31	26.5	21	109	205M-1/2K-1/2	252312	o. r.	

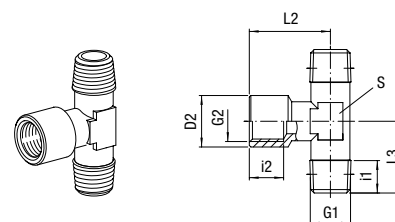
Illustration



T-Piece

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Thread R conical, thread G cylindr.	Nickel-plated brass						
G1	G2	i1	i2	L2	L3	D2	S	Weight in [g]	Type	Order number	Price
R 1/8	G 1/8	8	7	20	17.5	13	10	21	208M-1/8K-1/8	252353	o. r.
R 1/4	G 1/4	11	10.5	26	23	17	13	43.5	208M-1/4K-1/4	252357	o. r.
R 3/8	G 3/8	11.5	11.5	28	26	21	17	64	208M-3/8K-3/8	252360	o. r.

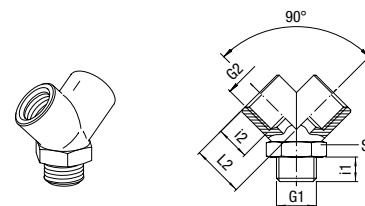
Illustration



Y-Piece

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Thread R conical, thread G cylindr.					Nickel-plated brass	
G1	G2	i1	i2	L2	D2	S	Weight in [g]	Type	Order number	Price
R 1/8	G 1/8	8	8	15	13.5	13	22.3	216M-1/8K-1/8	252403	o. r.
R 1/4	G 1/4	11	10.5	17	17.5	17	38.6	216M-1/4K-1/4	252407	o. r.
R 3/8	G 3/8	11.5	11.5	19	21	20	53.2	216M-3/8K-3/8	252410	o. r.
R 1/2	G 1/2	14	15	25	26.5	25	106	216M-1/2K-1/2	252412	o. r.

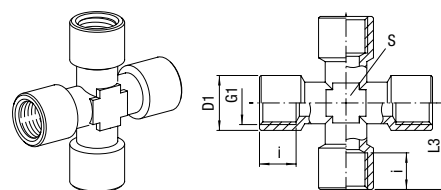
Illustration



Cross-Piece

Price group	16	PN 50	T _{min} -40 °C T _{max} +120 °C	Cylindrical thread					Nickel-plated brass
G1	i1	L3	D1	S	Weight in [g]	Type	Order number	Price	
G 1/8	8	21	13	10	37.7	203M-1/8	252453	o. r.	
G 1/4	10.5	26	17	13	73.6	203M-1/4	252457	o. r.	
G 3/8	11.5	28	21	17	110	203M-3/8	252460	o. r.	
G 1/2	15	33.5	26.5	21	182	203M-1/2	252462	o. r.	

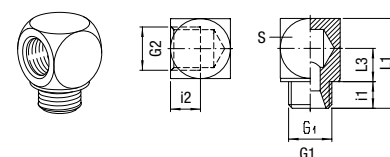
Illustration



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.	

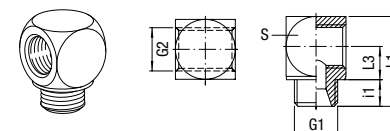
Illustration



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.	

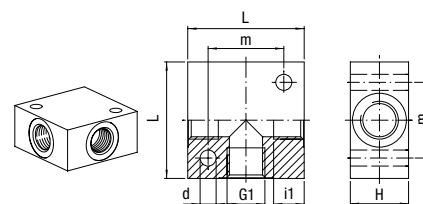
Illustration



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.

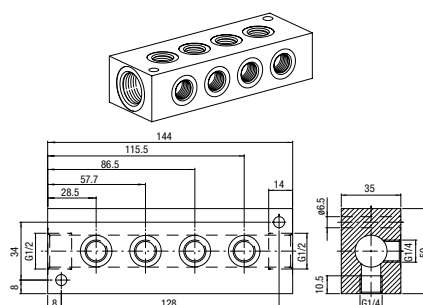
Illustration



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.

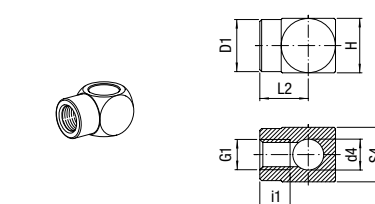
Illustration



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.	

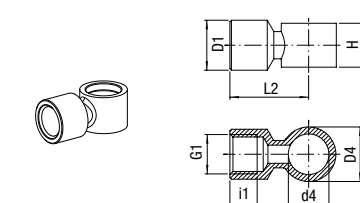
Illustration



Banjo Ring Piece

Price group	16	PN 16	T _{min} T _{max}	-20 °C +80 °C	Cylindrical thread					Nickel-plated brass		
G1	for hollow screw	i1	L2	H	D1	d4	D4	Weight in [g]	Type	Order number	Price	
G 1/4	G 1/4	9	26	14.5	17	13.4	18	28	322M-1/4-1/4	254382	o. r.	

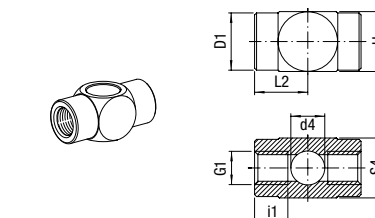
Illustration



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.	

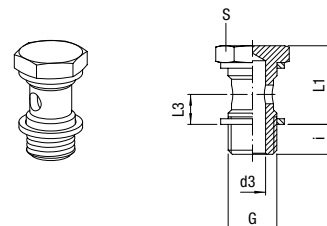
Illustration



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.	

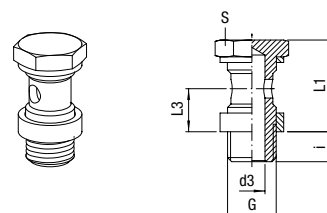
Illustration



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.	

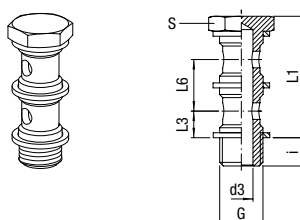
Illustration



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.

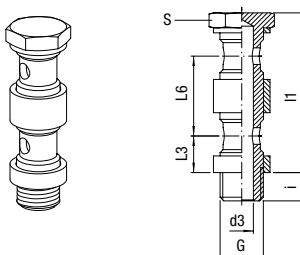
Illustration



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.

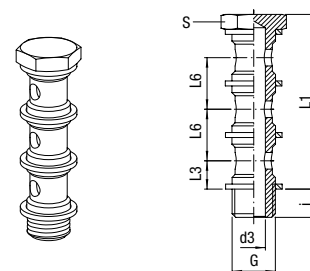
Illustration



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.	

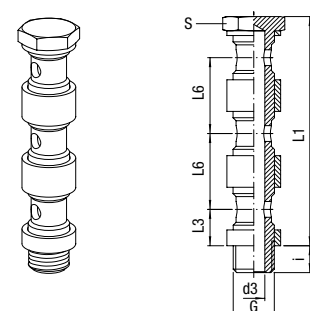
Illustration



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.		

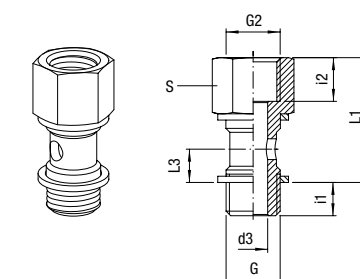
Illustration



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

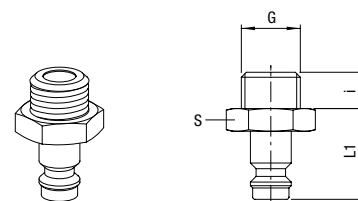


Quick Release Coupling Plug with Male Thread - NG 5 and NG 8

Price group **17** PN 16 $T_{min} -20\text{ }^{\circ}\text{C}$
 $T_{max} +80\text{ }^{\circ}\text{C}$

Nickel-plated brass

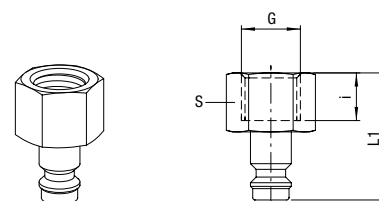
Nominal size	G	i	L1	S	Type	Order number	Price
5	G 1/8	6	19.5	13	515M-1/8	258009	o. r.
5	G 1/4	8	20	17	515M-1/4	258010	o. r.
8	G 1/4	8	25	17	518M-1/4	258018	o. r.
8	G 3/8	9	25	19	518M-3/8	258019	o. r.
8	G 1/2	10	25.5	24**	518M-1/2	258020	o. r.

Illustration

Quick Release Coupling Plug with Female Thread - NG 5 and NG 8

Price group **17** PN 16 $T_{min} -20\text{ }^{\circ}\text{C}$
 $T_{max} +80\text{ }^{\circ}\text{C}$

Nickel-plated brass

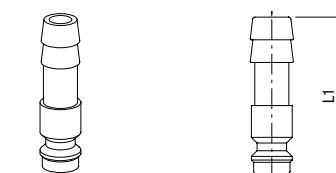
Nominal size	G	i	L1	S	Type	Order number	Price
5	G 1/8	7	25	13	535M-1/8	258209	o. r.
5	G 1/4	9	28	17	535M-1/4	258210	o. r.
8	G 1/4	9	33	17	538M-1/4	258218	o. r.
8	G 3/8	10	34	19	538M-3/8	258219	o. r.
8	G 1/2	13.5	38	24**	538M-1/2	258220	o. r.

Illustration

Quick Release Coupling Plug with Hosetail - NG 5 and NG 8

Price group **17** PN 16 $T_{min} -20\text{ }^{\circ}\text{C}$
 $T_{max} +80\text{ }^{\circ}\text{C}$

Nickel-plated brass

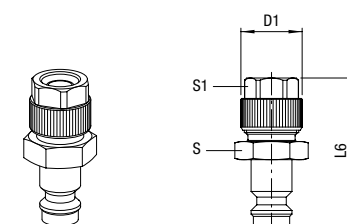
Nominal size	for tube LW	L1	Type	Order number	Price
5	4 - 5	33.5	565M-6	258406	o. r.
5	7 - 8	33.5	565M-9	258409	o. r.
8	4 - 5	39.5	568M-6	258411	o. r.
8	7 - 8	39.5	568M-9	258414	o. r.
8	10 - 11	39.5	568M-12	258417	o. r.
8	12 - 13	39.5	568M-14	258418	o. r.

Illustration

Quick Release Coupling Plug with Push-on Connector - NG 5 and NG 8

Price group **17** PN 16 $T_{min} -20\text{ }^{\circ}\text{C}$
 $T_{max} +80\text{ }^{\circ}\text{C}$

Nickel-plated brass

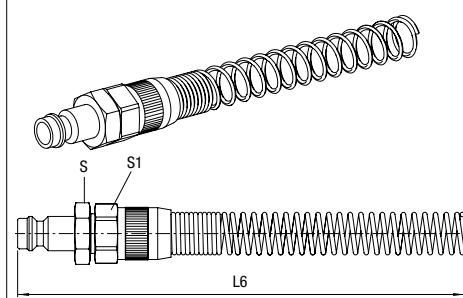
Nominal size	for tube D/d	L6*	D1	S1	S	Type	Order number	Price
5	6/4	33	11.5	10	12	545M-6/4	358608	o. r.
5	8/6	33	13.5	12	14	545M-8/6	358609	o. r.
8	8/6	39	13.5	12	14	548M-8/6	358615	o. r.
8	10/8	40.5	15.5	13	14	548M-10/8	358616	o. r.

Illustration

Quick Release Coupling Plug with Push-on Connector and Anti-kink Protection - NG 5 and NG 8

Price group **17** PN 16 $T_{min} -20\text{ }^{\circ}\text{C}$
 $T_{max} +80\text{ }^{\circ}\text{C}$

Nickel-plated brass

Nominal size	for tube D/d	L6*	S1	S	Type	Order number	Price
5	6/4	118	12	12	585M-6/4	358908	o. r.
5	8/6	119	14	14	585M-8/6	358909	o. r.
8	8/6	125	14	14	588M-8/6	358915	o. r.
8	10/8	125	16	14	588M-10/8	358916	o. r.

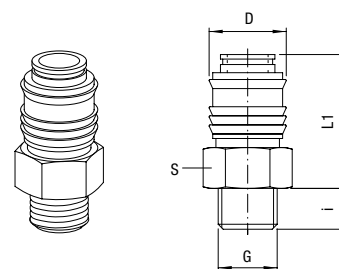
Illustration


* Approximate dimension with the union nut pulled ** S24 octagon

Quick Release Coupling with Male Thread - NG 5 and NG 8

Price group	17	PN 16	T _{min} -20 °C T _{max} +80 °C	Seal: NBR	Nickel-plated brass			
Nominal size	G	i	L1	D	S	Type	Order number	Price
5	G 1/8	7	29.5	17	14	551M-1/8	359009	o. r.
5	G 1/4	9	29	17	17	551M-1/4	359010	o. r.
8	G 1/4	9	31	27	22	581M-1/4	359018	o. r.
8	G 3/8	10	31	27	22	581M-3/8	359019	o. r.
8	G 1/2	10	31	27	24**	581M-1/2	359020	o. r.

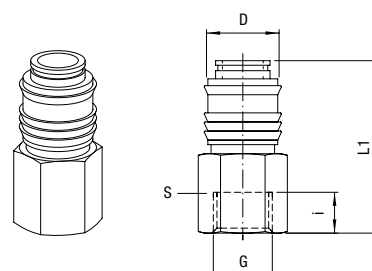
Illustration



Quick Release Coupling with Female Thread - NG 5 and NG 8

Price group	17	PN 16	T _{min} -20 °C T _{max} +80 °C	Seal: NBR	Nickel-plated brass			
Nominal size	G	i	L1	D	S	Type	Order number	Price
5	G 1/8	9	37	17	14	553M-1/8	359209	o. r.
5	G 1/4	8	38	17	17	553M-1/4	359210	o. r.
8	G 1/4	8	41	27	22	583M-1/4	359218	o. r.
8	G 3/8	9	41	27	22	583M-3/8	359219	o. r.
8	G 1/2	10	41	27	24**	583M-1/2	359220	o. r.

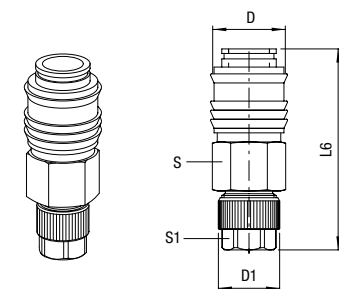
Illustration



Quick Release Coupling with Push-on Connector - NG 5

Price group	17	PN 16	T _{min} -20 °C T _{max} +80 °C	Seal: NBR						Nickel-plated brass
Nominal size	for tube D/d	L6*	D	D1	S1	S	Type	Order number	Price	
5	6/4	44.5	16	11.5	10	14	554M-6/4	359308	o. r.	
5	8/6	44.5	17	13.5	12	14	554M-8/6	359309	o. r.	

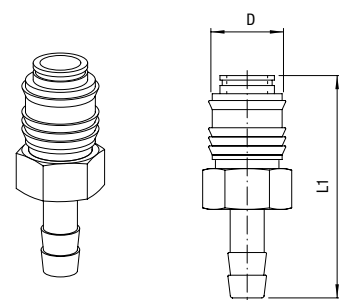
Illustration



Quick Release Coupling with Hosetail - NG 8

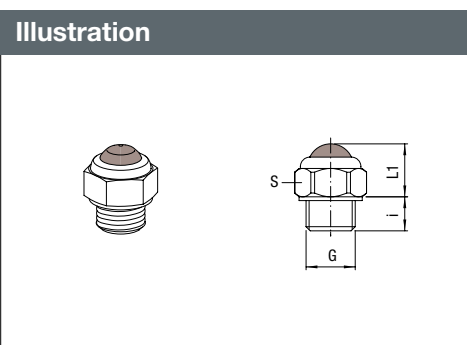
Price group	17	PN 16	T _{min} -20 °C T _{max} +80 °C	Seal: NBR	Nickel-plated brass		
Nominal size		for tube D/d	L1	D	Type	Order number	Price
8		4 - 5	55	27	586M-6	359511	o. r.
8		7 - 8	55	27	586M-9	359514	o. r.
8		12 - 13	55	27	586M-14	359518	o. r.

Illustration

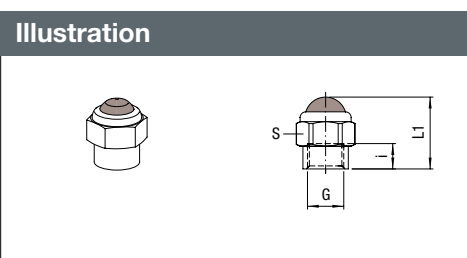


* Approximate for union nut ** S24 octagon

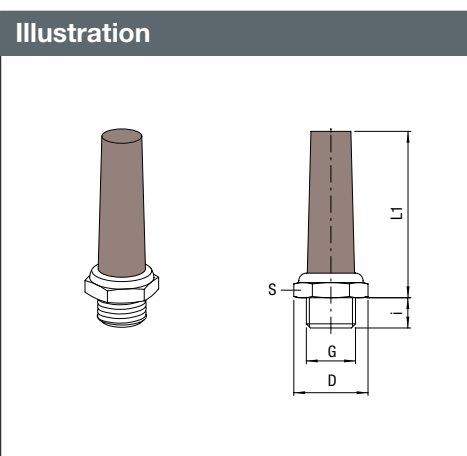
Silencer						
Price group	19	PN 10	T _{min} -40 °C T _{max} +130 °C	Silencer insert wire mesh	Brass Nickel-plated brass	
G	i	L1	S	Type	Order number	Price
G 1/8	6	8.5	13	290M-1/8	395028	o. r.
G 1/4	8	11	16	290M-1/4-16	395032	o. r.
G 3/8	7.5	11.5	19	290U-3/8	395035	o. r.
G 1/2	8.5	14.5	24	290U-1/2	395037	o. r.
G 3/4	10	15.5	30	290U-3/4	395039	o. r.



Silencer						
Price group	19	PN 10	T _{min} -40 °C T _{max} +130 °C	Silencer insert wire mesh	Brass	
G	i	L1	S	Type	Order number	Price
G 1/8	6.5	14	13	291U-1/8	395128	o. r.



Silencer							
Price group	19	PN 10	T _{min} -40 °C T _{max} +130 °C	Silencer insert wire mesh	Brass		
G	i	L1	D	S	Type	Order number	Price
M5	4	20	9.2	8	293U-M5	395226	o. r.
G 1/8	6	36	15	13	293U-1/8	395228	o. r.
G 1/4	8	44	18.5	16	293U-1/4	395232	o. r.
G 3/8	8	47	21.9	19	293U-3/8	395235	o. r.
G 1/2	10	57	27.7	24	293U-1/2	395237	o. r.
G 3/4	10	57	34.6	30	293U-3/4	395239	o. r.
G 1	12	67	41.6	36	293U-1	395241	o. r.



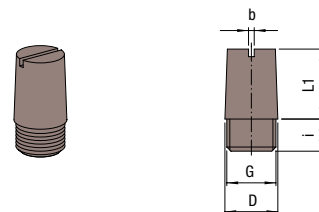
Silencer

Price group **19** PN 10 $T_{min} -40\text{ °C}$
 $T_{max} +130\text{ °C}$

Sinter metal

G	i	L1	D	b	Type	Order number	Price
G 1/8	5.5	15.5	11	1.5	294C-1/8	295003	o. r.
G 1/4	8.5	18.5	14	1.5	294C-1/4	295007	o. r.
G 3/8	11	25	18	2	294C-3/8	295010	o. r.
G 1/2	11	32.5	24	2	294C-1/2	295012	o. r.
G 3/4	12	53	29.5	2.5	294C-3/4	295014	o. r.
G 1	15	60	35.5	4	294C-1	295016	o. r.

Illustration



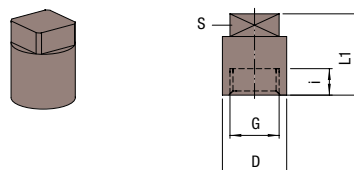
Silencer

Price group **19** PN 10 $T_{min} -40\text{ °C}$
 $T_{max} +130\text{ °C}$

Sinter metal

G	i	L1	D	S	Type	Order number	Price
G 1/8	5	13.5	13	9	295C-1/8	295053	o. r.

Illustration



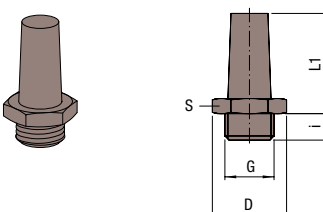
Silencer

Price group **19** PN 10 $T_{min} -40\text{ °C}$
 $T_{max} +130\text{ °C}$

Sinter metal

G	i	L1	D	S	Type	Order number	Price
G 1/8	5.5	22.5	14.5	13	298C-1/8	295103	o. r.
G 1/4	7	26.5	18.5	17	298C-1/4	295107	o. r.
G 3/8	8.9	24	24.5	22	298C-3/8	295110	o. r.
G 1/2	10	32	30	27	298C-1/2	295112	o. r.
G 3/4	15	40	35.5	32	298C-3/4	295114	o. r.
G 1	15	50	44.5	40	298C-1	295116	o. r.

Illustration



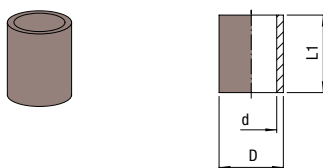
Silencer

Price group **19** PN 10 $T_{min} -40\text{ °C}$
 $T_{max} +130\text{ °C}$

Sinter metal

G	L1	D	S	Type	Order number	Price
G 1/8	20.5	14	10	299C-1/8	295153	o. r.
G 1/4	20.5	17	14	299C-1/4	295157	o. r.

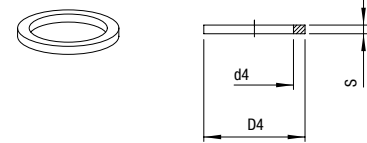
Illustration



Sealing Ring

Price group	16	Copper T _{max} +120 °C								Copper
for thread	special feature	D4	d4	s	Pack unit	Weight in [g/100]	Type	Order number	Price / 100	
G1/8 and M10	-	14	10.3	1	100	44	263C-1/8x1	252771	o. r.	
G 1/4	-	18	14	1	100	61	263C-1/4x1	252776	o. r.	
G 3/8	-	21	17	1	100	74.7	263C-3/8x1	252781	o. r.	
G 3/8	-	21	17	1.5	100	118	263C-3/8x1.5	252782	o. r.	
G 1/2	-	26	21.3	1	100	142	263C-1/2x1	252786	o. r.	
G 3/4	-	32	27.2	1	100	178.5	263C-3/4x1	252791	o. r.	

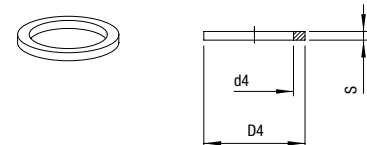
Illustration



Sealing Ring

Price group	16	Fibre T _{max} +90 °C								Fibre
for thread	special feature	D4	d4	s	Pack unit	Weight in [g/100]	Type	Order number	Price / 100	
G1/8 and M10	-	14	10	1.5	100	12	264V-1/8x1.5	252821	o. r.	
G 1/4	-	17.5	13.5	1.5	100	16.3	264V-1/4x1.5	252826	o. r.	
G 3/8	-	21	16.7	1.5	100	25.6	264V-3/8x1.5	252831	o. r.	
G 1/2	-	25	21.3	1.5	100	24.6	264V-1/2x1.5	252836	o. r.	

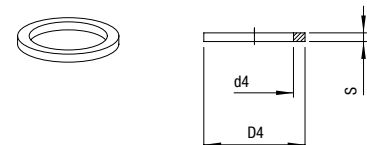
Illustration



Sealing Ring

Price group	16	Aluminium T _{max} +120 °C								Aluminium
for thread	special feature	D4	d4	s	Pack unit	Weight in [g/100]	Type	Order number	Price / 100	
M5	-	7.5	5.1	0.5	100	3.2	265A-M5x0.5	252851	o. r.	
M5	-	7.5	5.1	1	100	6.2	265A-M5x1	252852	o. r.	
M5	-	8	5.1	1.5	100	11.4	265A-M5x1.5	252853	o. r.	
G1/8 + M10	-	14	10.3	1.5	100	25	265A-1/8x1.5	252871	o. r.	
G 1/4	-	17	13.5	1.5	100	33	265A-1/4x1.5	252876	o. r.	
G 3/8	-	21	16.7	1.5	100	47	265A-3/8x1.5	252881	o. r.	
G 1/2	-	25	21.3	1.5	100	48	265A-1/2x1.5	252886	o. r.	
G 3/4	-	32	27.2	1.5	100	84	265A-3/4x1.5	252891	o. r.	

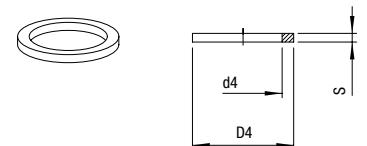
Illustration



Sealing Ring

Price group	16	Polyamide T _{max} +90 °C								Polyamide
for thread	special feature	D4	d4	s	Pack unit	Weight in [g/100]	Type	Order number	Price / 100	
M5	-	8	5.1	1	100	3	266N-M5x1	252902	o. r.	
M5	und detachable	8	4.8	1	100	5.2	266N-M5x1x4.8	252904	o. r.	
G1/8 + M10	-	14	10.2	1.5	100	11	266N-1/8x1.5	252921	o. r.	
G1/8 + M10	und detachable	14	10.3	1.5	100	11.3	266N-1/8x1.5x9	252922	o. r.	
G 1/4	-	17	13.5	1.5	100	16	266N-1/4x1.5	252926	o. r.	
G 1/4	und detachable	17	13.5	1.5	100	13	266N-1/4x1.5x12	252927	o. r.	
G 3/8	-	21	16.7	1.5	100	21	266N-3/8x1.5	252931	o. r.	
G 3/8	und detachable	21	17	1.5	100	38	266N-3/8x1.5x15	252932	o. r.	
G 1/2	-	26	21.3	1.5	100	27	266N-1/2x1.5	252936	o. r.	
G 1/2	und detachable	26	21.5	1.5	100	29	266N-1/2x1.5x19	252937	o. r.	

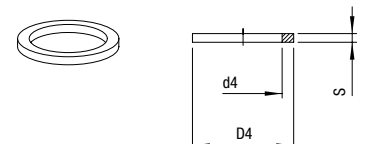
Illustration



Sealing Ring

Price group	16	Hard PVC T _{max} +70 °C								Hard PVC
for thread	special feature	D4	d4	s	Pack unit	Weight in [g/100]	Type	Order number	Price / 100	
M5	-	8	5.1	1	100	5	269N-M5x1	252952	o. r.	
M5	und detachable	8	4.8	1	100	4	269N-M5x1x4.8	252954	o. r.	
G1/8 + M10	-	14	10	1.5	100	16.9	269N-1/8x1.5	252971	o. r.	
G 1/4	-	17.5	13.5	1.5	100	18	269N-1/4x1.5	252976	o. r.	
G 3/8	-	21	16.7	1.5	100	28.5	269N-3/8x1.5	252981	o. r.	
G 1/2	-	26	21.3	1.5	100	35	269N-1/2x1.5	252986	o. r.	

Illustration



Distance Ring

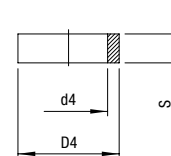
Price group **16**

Polyamide
T_{max}+90 °C

Polyamide

for thread	special feature	D4	d4	s	Pack unit	Weight in [g/100]	Type	Order number	Price / 100
G1/8 + M10	und detachable	13.8	10.3	4		31	266N-1/8x4x9	252906	o. r.
G1/8 + M10	und detachable	13.8	10.3	5		38	266N-1/8x5x9	252923	o. r.
G1/4	und detachable	17	13.5	5		41	266N-1/4x5x12	252928	o. r.
G3/8	und detachable	21	17	5		61	266N-3/8x5x15	252933	o. r.
G 1/2	und detachable	26	21.5	5		90	266N-1/2x5x19	252938	o. r.

Illustration



Distance Ring

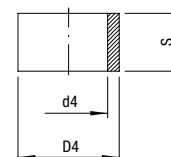
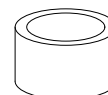
Price group **16**

Polyamide
T_{max}+90 °C

Polyamide

for thread	special feature	D4	d4	s	Pack unit	Weight in [g/100]	Type	Order number	Price
G 1/8 + M10	-	13.8	10.3	10		70	266N-1/8x10	252925	o. r.
G 1/4	-	17	13.5	10		85	266N-1/4x10	252930	o. r.
G 3/8	-	21	17	10		125	266N-3/8x10	252935	o. r.
G 1/2	-	26	21.5	10		178	266N-1/2x10	252940	o. r.

Illustration



Pressure Gauge Sealing Ring

Price group **16**

Copper
T_{max}+120 °C

Copper

for inner thread	special feature	Pack unit	Weight in [g/100]	Type	Order number	Price
G 1/8	-		60	275C-1/8	252991	o. r.
G 1/4	-		86	275C-1/4	252992	o. r.

Illustration



PTFE Band

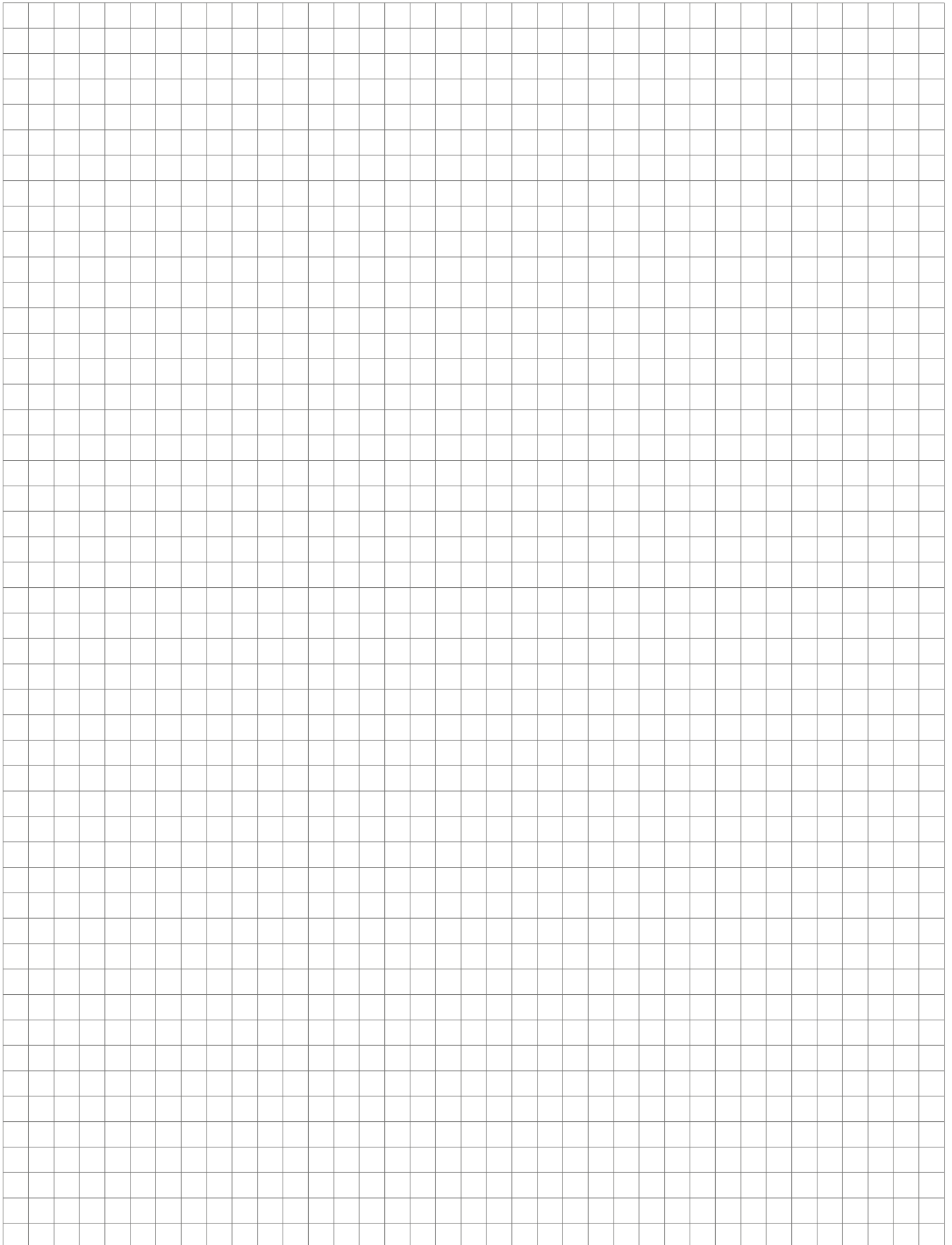
Price group **18**

PTFE

Length [m]	Width [mm]	Thickness [mm]	Type	Order number	Price
12	12	0.08	420P-12-12	296401	o. r.

Illustration





Fitting Accessories Stainless Steel AISI 316L (1.4404)



Stainless steel version

Operating pressure Technical vacuum up to maximum pressure as stated in the respective specification table under PN.

Temperature range: -40 °C to +140 °C (for restrictions see specification table)

Application

Fitting accessories made of stainless steel 1.4404 are used in particular for aggressive gaseous and liquid media under harsh operating conditions. These connectors are equipped with FDA-compliant FKM sealing rings, on request they are available with FDA-compliant and KTW-approved EPDM sealing rings.

CHARACTERISTICS

BODY MATERIAL / SUITABILITY

Stainless steel AISI 316L	Corresponds to 1.4404 stainless steel . Suitable for many aggressive media, in particular at higher pressures. The FKM seal is FDA-compliant and can be used in the food and pharmaceutical industries.
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Approval	NSF/ANSI 169
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THREAD

External thread	"G" cylindrical thread: Whitworth pipe thread DIN ISO 228-1 G 1/8-G 1/2
External thread	"R" conical thread: Whitworth pipe thread DIN 2999-1 and ISO 7/1 R 1/8 up to R 1/2. Designed so it can be paired with internal thread according to DIN ISO 228-1.
Internal thread	"G" cylindrical thread: Whitworth pipe thread DIN ISO 228-1 G 1/8 up to G 1/2

OPERATING PRESSURE / TEMPERATURE

Metal version	<table><tr><td>PN</td><td>T_{min}</td><td>-40 °C</td></tr><tr><td>50</td><td>T_{max}</td><td>+140 °C</td></tr></table> Means that the fitting can be used up to the shown nominal pressure PN in the specified temperature range "T".	PN	T _{min}	-40 °C	50	T _{max}	+140 °C
PN	T _{min}	-40 °C					
50	T _{max}	+140 °C					
Allowable operating pressure and operating temperature of pipe/tube must be complied with.							

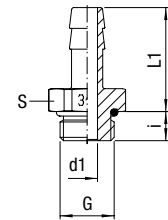
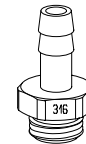
THREAD SEAL

Cylindrical threaded nipple	Seal with FKM sealing rings (FDA-compliant)
Conical threaded nipple	Seal with Teflon tape winding (FDA-compliant) on request

Hose Tail Adaptor

Price group	13	PN 25	T _{min} -20 °C T _{max} +140 °C	Thread cylindrical	Seal FKM (FDA-compliant)				Stainless steel AISI 316L
for tube LW	G	i	L1	d1	S	Weight in [g]	Type	Order number	Price
3.5-4	M 5	3.5	12.5	-	-	2.5	260X4-4-M5FF	356553	o. r.
5-6	G 1/8	5	24	4	13	10	260X4-7-1/8FF	356561	o. r.
5-6	G 1/4	7	24.5	4	17	34.7	260X4-7-1/4FF	356562	o. r.
6-7	G 1/8	5	24	5	13	10.1	260X4-8-1/8FF	356563	o. r.
6-7	G 1/4	7	24.5	5	17	18.8	260X4-8-1/4FF	356564	o. r.
7-8	G 1/8	5	24	6	13	18.7	260X4-9-1/8FF	356565	o. r.
7-8	G 1/4	7	24.5	6	17	17.9	260X4-9-1/4FF	356566	o. r.
7-8	G 3/8	8	24.5	6	19	44.9	260X4-9-3/8FF	356567	o. r.
9-10	G 1/4	7	24.5	7	17	34.7	260X4-10-1/4FF	356568	o. r.
10-11	G 1/4	7	24.5	8	17	20	260X4-12-1/4FF	356570	o. r.
10-11	G 3/8	8	24.5	9	19	24.1	260X4-12-3/8FF	356571	o. r.
10-11	G 1/2	9	25	9	24	41.8	260X4-12-1/2FF	356572	o. r.
12-13	G 1/4	7	24.5	8	17	26.2	260X4-14-1/4FF	356573	o. r.
12-13	G 3/8	8	24.5	11	19	22.7	260X4-14-3/8FF	356574	o. r.
12-13	G 1/2	9	25	11	24	39.5	260X4-14-1/2FF	356575	o. r.
15-16	G 3/8	8	29	11	19	50.4	260X4-17-3/8FF	356576	o. r.
15-16	G 1/2	9	29.5	14	24	36.9	260X4-17-1/2FF	356577	o. r.
18-19	G 1/2	9	29.5	15	24	44.6	260X4-20-1/2FF	356578	o. r.

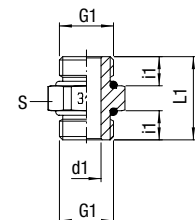
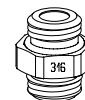
Illustration



Double Nipple

Price group	13	PN 25	T _{min} -20 °C T _{max} +140 °C	Thread cylindrical	Seal FKM (FDA-compliant)			Stainless steel AISI 316L
G1	i1	L1	d1	S	Weight in [g]	Type	Order number	Price
G 1/8	5	15.5	6	13	7	250X4-1/8FF	356603	o. r.
G 1/4	7	20	8	17	15.5	250X4-1/4FF	356604	o. r.
G 3/8	8	22	11	19	20.7	250X4-3/8FF	356605	o. r.
G 1/2	9	24.5	14	24	55	250X4-1/2FF	356606	o. r.

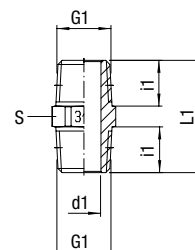
Illustration



Double Nipple

Price group	13	PN 50	T _{min} -40 °C T _{max} +140 °C	Thread conical						Stainless steel AISI 316L
G1	i1	L1	d1	S	Weight in [g]	Type		Order number	Price	
R 1/8	7.5	19.5	5.5	10	7	250X4-1/8K		256621	o. r.	
R 1/4	11	27	8	14	15.4	250X4-1/4K		256622	o. r.	
R 3/8	11.5	28	11	17	24.3	250X4-3/8K		256623	o. r.	
R 1/2	14	33.5	15	22	38.4	250X4-1/2K		256624	o. r.	

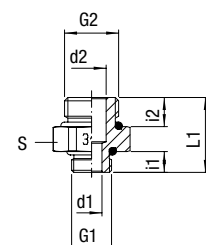
Illustration



Double Reducing Nipple

Price group	13	PN 25	T _{min} -20 °C T _{max} +140 °C	Thread cylindrical	Seal FKM (FDA-compliant)					Stainless steel AISI 316L	
G1	G2	i1	i2	L1	d1	d2	S	Weight in [g]	Type	Order number	Price
G 1/8	G 1/4	5	7	18	6	8	17	20.9	251X4-1/8-1/4FF	356652	o. r.
G 1/8	G 3/8	5	8	19	6	11	19	27.5	251X4-1/8-3/8FF	356653	o. r.
G 1/8	G 1/2	5	9	20.5	6	14	24	46.7	251X4-1/8-1/2FF	356654	o. r.
G 1/4	G 3/8	7	8	21	8	11	19	18	251X4-1/4-3/8FF	356655	o. r.
G 1/4	G 1/2	7	9	22.5	8	14	24	31	251X4-1/4-1/2FF	356656	o. r.
G 3/8	G 1/2	8	9	23.5	11	14	24	32.1	251X4-3/8-1/2FF	356657	o. r.

Illustration

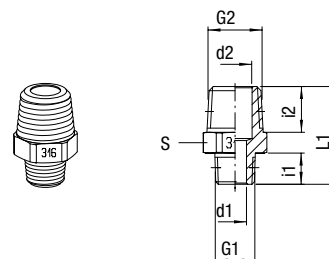


Double Reducing Nipple

Price group	13	PN	50	T _{min}	-40 °C	T _{max}	+140 °C	Thread "R"	conical	NSF	Stainless steel AISI 316L
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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	13.1	251X4-1/8K-1/4K	256671	o. r.
R 1/8	R 3/8	7.5	11.5	24	5.5	11	17	19.2	251X4-1/8K-3/8K	256672	o. r.
R 1/8	R 1/2	7.5	14	27	5.5	15	22	31.9	251X4-1/8K-1/2K	256673	o. r.
R 1/4	R 3/8	11	11.5	27.5	8.2	11	17	21.3	251X4-1/4K-3/8K	256674	o. r.
R 1/4	R 1/2	11	14	30.5	8.2	15	22	34.6	251X4-1/4K-1/2K	256675	o. r.
R 3/8	R 1/2	11.5	14	31	11	15	22	35.7	251X4-3/8K-1/2K	256676	o. r.

Illustration

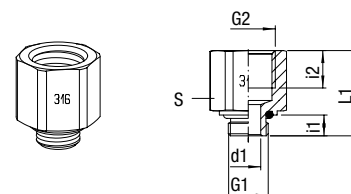


Reducer

Price group	13	PN	25	T _{min}	-20 °C	T _{max}	+140 °C	Thread "G"	cylindrical	Seal FKM (FDA-compliant)	NSF	Stainless steel AISI 316L
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G1	G2	i1	i2	L1	d1	S	Weight in [g]	Type	Order number	Price
G 1/8	G 1/8	5	6.5	17	6	13	8.9	252X4-1/8FF-1/8	356703	o. r.
G 1/8	G 1/4	5	9	20.5	6	17	23.4	252X4-1/8FF-1/4	356704	o. r.
G 1/8	G 3/8	5	9.5	21.5	6	19	18	252X4-1/8FF-3/8	356705	o. r.
G 1/8	G 1/2	5	12.5	26.5	6	24	40.7	252X4-1/8FF-1/2	356706	o. r.
G 1/4	G 1/4	7	9	21.5	8	17	45.6	252X4-1/4FF-1/4	356707	o. r.
G 1/4	G 3/8	7	9.5	23	8	19	20	252X4-1/4FF-3/8	356708	o. r.
G 1/4	G 1/2	7	12.5	27.5	8	24	61.3	252X4-1/4FF-1/2	356709	o. r.
G 3/8	G 3/8	8	9.5	23	11	19	20.2	252X4-3/8FF-3/8	356710	o. r.
G 3/8	G 1/2	8	12.5	28	11	24	39.5	252X4-3/8FF-1/2	356711	o. r.
G 1/2	G 1/2	9	12.5	28.5	14	24	63.2	252X4-1/2FF-1/2	356712	o. r.

Illustration

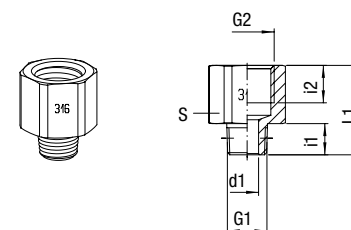


Reducer

Price group	13	PN	50	T _{min}	-40 °C	T _{max}	+140 °C	Thread "R" conical, Thread "G" cylindrical	NSF	Stainless steel AISI 316L
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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	6.5	18	5.5	13	9.2	252X4-1/8K-1/8	256751	o. r.
R 1/8	G 1/4	7.5	9	21.5	5.5	17	17.7	252X4-1/8K-1/4	256752	o. r.
R 1/8	G 3/8	7.5	9.5	23	5.5	19	18.9	252X4-1/8K-3/8	256753	o. r.
R 1/8	G 1/2	7.5	12.5	27.5	5.5	24	38.9	252X4-1/8K-1/2	256754	o. r.
R 1/4	G 1/4	11	9	25	8.2	17	20.4	252X4-1/4K-1/4	256755	o. r.
R 1/4	G 3/8	11	9.5	26	8.2	19	18.3	252X4-1/4K-3/8	256756	o. r.
R 1/4	G 1/2	11	12.5	30.5	8.2	24	39.5	252X4-1/4K-1/2	256757	o. r.
R 3/8	G 3/8	11.5	9.5	26.5	11	19	23.4	252X4-3/8K-3/8	256758	o. r.
R 3/8	G 1/2	11.5	12.5	31	11	24	40.8	252X4-3/8K-1/2	256759	o. r.
R 1/2	G 1/2	14	12.5	33.5	15	24	45.1	252X4-1/2K-1/2	256760	o. r.

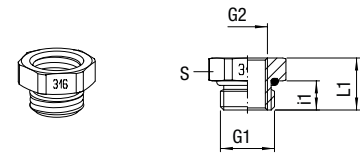
Illustration



Reducer

Price group	13	PN	25	T _{min}	-20 °C	T _{max}	+140 °C	Thread	cylindrical	Seal FKM (FDA-compliant)	NSF	Stainless steel AISI 316L
G1	G2	i1	L1	S	Weight in [g]	Type	Order number	Price				
G 1/4	G 1/8	7	12.5	17	10.1	253X4-1/4FF-1/8	356802	o. r.				
G 3/8	G 1/8	8	13.5	19	17.7	253X4-3/8FF-1/8	356803	o. r.				
G 1/2	G 1/8	9	15.5	24	36.9	253X4-1/2FF-1/8	356804	o. r.				
G 3/8	G 1/4	8	13.5	19	11.7	253X4-3/8FF-1/4	356805	o. r.				
G 1/2	G 1/4	9	15.5	24	30.1	253X4-1/2FF-1/4	356806	o. r.				
G 1/2	G 3/8	9	15.5	24	20.3	253X4-1/2FF-3/8	356807	o. r.				

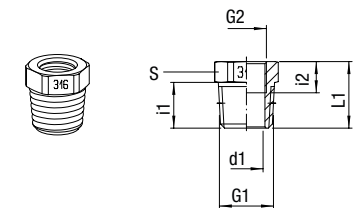
Illustration



Reducer

Price group	13	PN	50	T _{min}	-40 °C	T _{max}	+140 °C	Thread "R" conical, Thread "G" cylindrical	NSF	Stainless steel AISI 316L
G1	G2	i1	i2	L1	d1	S	Weight in [g]	Type	Order number	Price
R 1/4	G 1/8	11	7.5	16	8.9	14	8.6	253X4-1/4K-1/8	256852	o. r.
R 3/8	G 1/8	11.5	7.5	16.5	8.9	17	18.4	253X4-3/8K-1/8	256853	o. r.
R 1/2	G 1/8	14	7.5	19.5	8.9	22	41.7	253X4-1/2K-1/8	256854	o. r.
R 3/8	G 1/4	11.5	9	16.5	8.9	17	13.5	253X4-3/8K-1/4	256855	o. r.
R 1/2	G 1/4	14	11.5	19.5	12	22	33.5	253X4-1/2K-1/4	256856	o. r.
R 1/2	G 3/8	14	11.5	19.5	15.5	22	37.7	253X4-1/2K-3/8	256857	o. r.

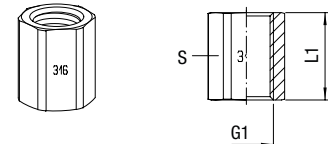
Illustration



Socket

Price group	13	PN	50	T _{min}	-40 °C	T _{max}	+140 °C	Thread	cylindrical	NSF	Stainless steel AISI 316L
G1	L1	S	Weight in [g]	Type	Order number	Price					
G 1/8	15	13	8.8	254X4-1/8	256902	o. r.					
G 1/4	21	17	20	254X4-1/4	256903	o. r.					
G 3/8	23	19	20	254X4-3/8	256904	o. r.					
G 1/2	30	24	41.5	254X4-1/2	256905	o. r.					

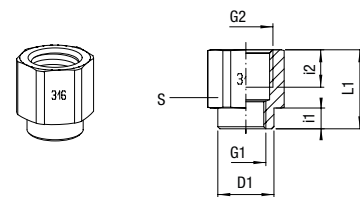
Illustration



Reducing Socket

Price group	13	PN 50	T _{min} -40 °C T _{max} +140 °C	Thread cylindrical						Stainless steel AISI 316L
G1	G2	i1	i2	L1	D1	S	Weight in [g]	Type	Order number	Price
G 1/8	G 1/4	5	9	19	13.5	17	17.9	255X4-1/8-1/4	256922	o. r.
G 1/8	G 3/8	5.5	9.5	20.5	13.5	19	18	255X4-1/8-3/8	256923	o. r.
G 1/8	G 1/2	5	12.5	25	13.5	24	38.9	255X4-1/8-1/2	256924	o. r.
G 1/4	G 3/8	7.5	9.5	22	17	19	19.7	255X4-1/4-3/8	256925	o. r.
G 1/4	G 1/2	7.5	12.5	27	17	24	39.3	255X4-1/4-1/2	256926	o. r.
G 3/8	G 1/2	7	12.5	27	21	24	38.9	255X4-3/8-1/2	256927	o. r.

Illustration



Blind Plug

Price group	13	PN	25	T _{min}	-20 °C	T _{max}	+140 °C	Thread	cylindrical	Seal FKM (FDA-compliant)	NSF	Stainless steel AISI 316L
G1	i1	L1	D1	t	S	Weight in [g]	Type	Order number	Price			
G 1/8	5	8	13	4	5	4.2	262X4-1/8FF	356522	o. r.			
G 1/4	7	10.5	16	5.5	6	9.2	262X4-1/4FF	356526	o. r.			
G 3/8	8	11.5	20	5.5	8	16.2	262X4-3/8FF	356529	o. r.			
G 1/2	9	13	25	5.5	10	29.4	262X4-1/2FF	356532	o. r.			

Illustration

