





Solenoid Valve Series 166H

The stainless steel body attached to an electrically actuated solenoid valve offers the possibility to clock the spray application flexibly.

Advantages:

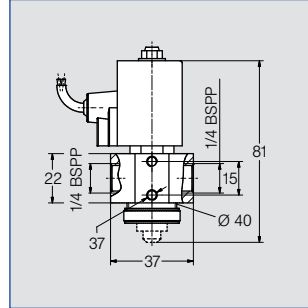
- Assembly with retaining nut – easy nozzle changing
- Simple jet alignment
- For flat fan and full cone nozzles

Applications:

Cleaning and coating, moistening, lubrication.

Scope of supply:

Nozzle valve with body and retaining nut. Nozzle has to be ordered separately.



Material:
303 SS
Stainless steel combined with solenoid valve

Flow rate water V_w :
Max. 3 l/min at 4 bar




Max. operating pressure:
5 bar (valve closed)

Power:
8 Watt

Voltage:
24 V DC

Protection:
IP 67

Max. frequency:
500/min

	Type	Up to size	Spray Pattern	Spray angle	Material
	652 (See page 4.17)	51X	flat fan	See page 4.17	See page 4.17
	684 (See page 4.32)	528	flat fan (tongue-type nozzle)	140°	See page 4.32
	468 (See page 3.11)	52X	full cone	See page 3.11	See page 3.11

Ordering number:
166.000.16.H0.00.0 (Nozzle valve with body and retaining nut)



TWISTLOC

Quick-change nozzle system

Lechler TWISTLOC - nozzle changing in less than no time.

The quick-change nozzle system makes you save time and money.

Quick:

For putting in or taking out a nozzle, just give it a twist.

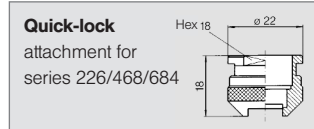
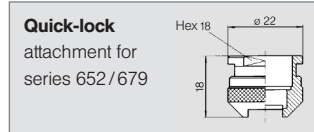
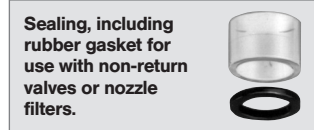
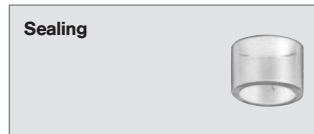
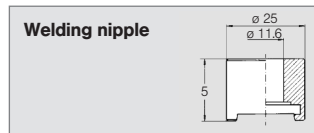
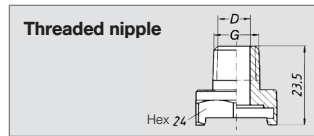
Easy:

Without tool, just with one hand, even at locations hard to get at and under bad lighting conditions.

Safe:

Constant pre-setting of the nozzle to the correct direction prevents any assembling errors.

Max. pressure: 15 bar.



Type	Ordering no.								Inside- ø D [mm]	
	Material no.						Code			
	1C	16	30	5E	7A	7E	1/4 BSPT	3/8 BSPT		Welding connection
	304 SS	303 SS	Brass	PVDF	Viton	Silicon				
092. 102	-	●	●	-	-	-	CC	-	-	8.0
	-	●	●	-	-	-	-	CE	-	11.6
	-	-	-	●	-	-	-	CE	-	8.0
092.104	●	-	-	-	-	-	-	-	00	11.6
092. 113	-	-	-	-	●	●	-	-	-	-
092. 116	-	-	-	-	●	●	-	-	-	-
092. 106	-	●	●	●	-	-	-	-	-	-
092. 108	-	●	●	●	-	-	-	-	-	-

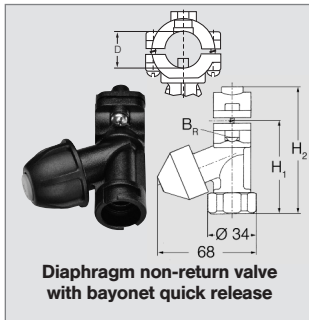
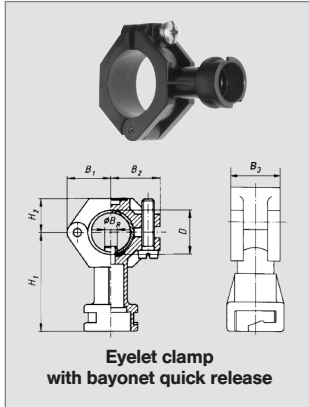
Example for ordering: Type + Material no. + Code = Ordering no.
092. 102 + 16 + CC = 092. 102. 16. CC





Accessories

Bayonet quick release system

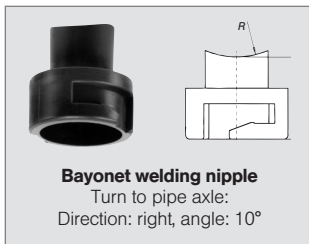


For series	Ordering no.				Screw (Material)	Pipe \varnothing	D \varnothing [mm]	Opening pressure [bar]	Closing pressure [bar]	Dimensions [mm]						Weight			
	Type	Material no.								Code	H ₁	H ₂	B _R \varnothing *	B** \varnothing	B ₁		B ₂	B ₃	
		51	53	5E															56
302 Bajonett 422 Bajonett / 2TR 468/548/646 652/679/684	090.003	○	○	○	-	KA	303 SS	1/2"	20-22.0	-	-	49.5	16.5	6.0	6.2-6.4	21.2	23.8	18.5	22g
	090.013	○	○	○	-	KA	303 SS	3/4"	25-27.5	-	-	52.5	17.5	7.6	7.8-8.0	24.5	26.5	22.0	26g
	090.023	○	○	○	-	KA	303 SS	1"	32-34.5	-	-	57.0	21.0	10.6	10.8-11.0	30.0	31.0	22.0	32g
302 Bajonett 422 Bajonett 2TR/468/548/646 652/679/684	065.272	-	-	-	○	KH	303 SS	1/2"	20-22.0	0.8	0.6	59	84	6.0	6.2-6.4	-	-	-	48g
	065.272	-	-	-	○	KL	303 SS	3/4"	25-27.5	0.8	0.6	66	90	9.6	9.8-10.0	-	-	-	53g

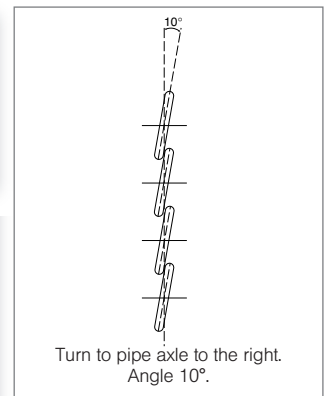
*B_R \varnothing = Spigot diameter

**B = Recommended bore diameter

Information: Please consider the material combination if you use bayonet quick release eyelet clamps in combination with bayonet quick release retainer caps. When different materials are used, the cap may become difficult to turn.



For series	Ordering no.	Material	Dimensions [mm]	
			L	R
302 Bajonett 422 Bajonett 2TR/468/548/646 652/679/684	095.016.50.08.05	PVC	25	16
	095.016.53.08.05	PP	25	16



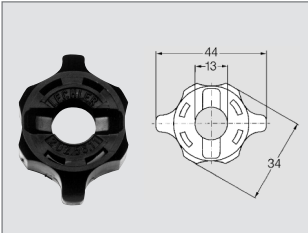
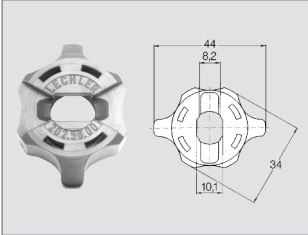
For nozzle size	Ordering no.		Mesh width [mm]	Colour	Dimensions [mm]				Weight
	Type	Mat. no.			H ₁	H ₂	D ₁	D ₂	
xxx.32x-xxx.44x	065.268	○	0.25	blue	21.5	2.5	18.0	11.0	2 g
xxx.48x-xxx.56x	065.269	○	0.65	red	21.5	2.5	18.0	11.0	2 g



Accessories

Bayonet quick release system

Bayonet quick release retainer caps
incl. gasket 065. 242. 73
(Material: rubber)

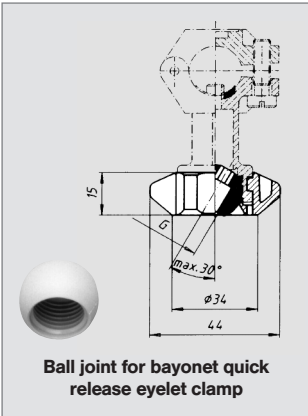


For series	Ordering no.		Material	Colour
	Type	Mat.-no.		
652/679		065. 202. 56. 00	POM	red
		065. 202. 53. 00	Polypropylene	grey
		065. 202. 5E. 00	PVDF	blue
2TR/468/548/684		065. 202. 56. 11	POM	black
		065. 202. 53. 11	Polypropylene	grey

Information: Please consider the material combination if you use bayonet quick release eyelet clamps in combination with bayonet quick release retainer caps. When different materials are used, the cap may become difficult to turn.

Ball joint for bayonet quick release system

Inexpensive ball joint system for nozzles with 1/8" and 1/4" male thread.



For series	Ordering no.			Colour
	Type	Mat.-no.	Code	
For all nozzles with 1/8"- or 1/4"-male thread.	092. 150	●	AB AD	blue



For series	Ordering no.	Material	Colour
For ball joint	092. 150. 5E. 00	PVDF	blue

Pressure/Temperature

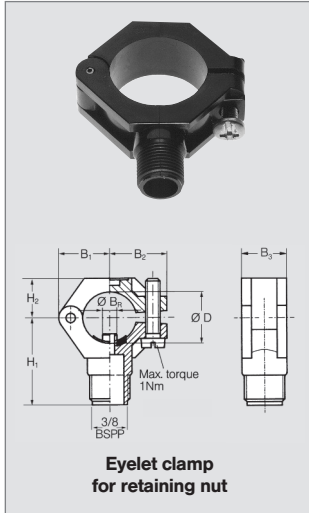
T	P _{max}
65 °C	10 bar
80 °C	8 bar
100 °C	4 bar





Accessories

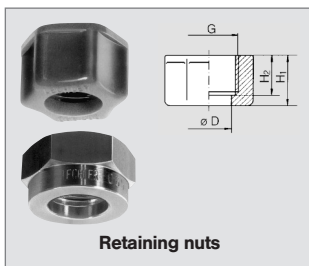
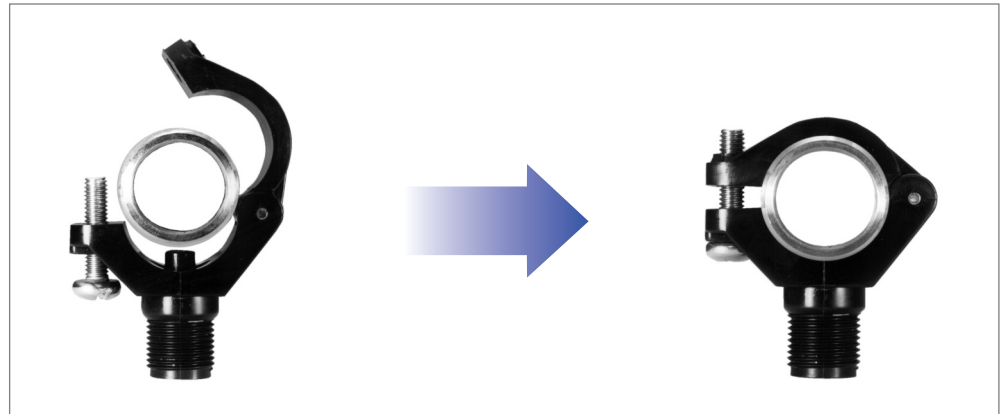
Eyelet clamps / Retaining nuts



For series	Bestell-Nr.			Screw	Dimensions [mm]										Weight (Polyamid)	
	Type	Material-Nr.			G ISO 228	Rohr ø	D ø	B _R * ø	B** ø	B ₁	B ₂	B ₃	H ₁	H ₂		
		51	53													5E
2TR/216/302/308/350 468/548/679/684/652	090.053	○	○	○	Material 303 SS	3/8	3/8"	16.5-18.0	6.0	6.2-6.4	19.0	22.0	18.5	34.5	14.5	20 g
	090.003	○	○	○		3/8	1/2"	20-22.0	6.0	6.2-6.4	21.2	23.8	18.5	36.5	16.5	20 g
	090.013	○	○	○		3/8	3/4"	25-27.5	7.6	7.8-8.0	24.5	26.5	22.0	39.5	17.5	25 g
	090.023	○	○	○		3/8	1"	32-34.5	10.6	10.8-11.0	30.0	31.0	22.0	44.0	21.0	32 g
	090.033	○	○	○		3/8	1 1/4"	40-43.0	12.6	12.8-13.0	34.0	35.5	25.0	48.0	25.0	38 g

*B_R Ø = Spigot diameter

**B Ø = Recommended bore diameter



For series	Ordering no.						Dimensions [mm]					Weight (Brass)	
	Type	Material no.					BSPP	H ₁	H ₂	D	Hex		
		16	17 ¹⁾	1Y	30	56							5E
2TR/468/548 652/660/679 684	065.200	○	○	-	○	-	UNF 11/16-16	3/8	13.0	10.0	12.8	22	25 g
	065.200	-	-	-	-	○		3/8	14.5	11.5	12.8	22	
	069.000	○	-	-	○	-		-	14.3	8.7	13.1	21	
656/657 664/665	065.600	○	○	-	○	-	○	3/4	16.0	13.0	20.1	32	60 g

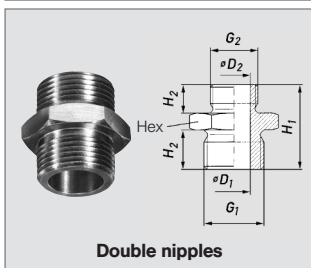
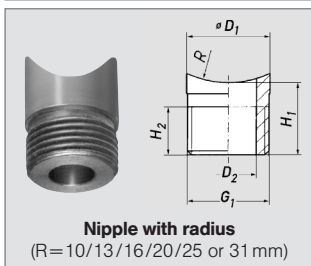
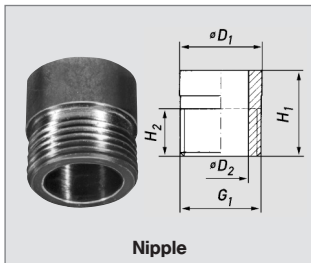
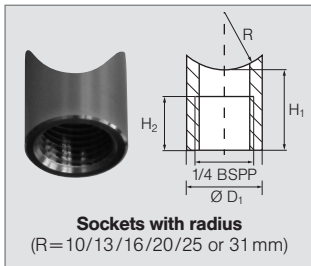
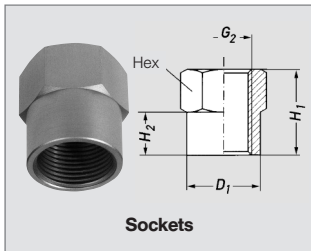
1) We reserve the right to deliver 316Ti SS or 316L SS under the material no. 17.

For filters and non-return valves please refer to page 9.9



Accessories

Sockets / Nipples



For series	Ordering no.					Dimensions [mm]							Weight (Brass)	
	Type	Material no.					G ₁	G ₂	H ₁	H ₂	D ₁	D ₂		Hex
		02	1Y	17	30	53								
	Steel	316L SS	316Ti SS	Brass	Polypropylene									
For all nozzles with 1/8" male thread.	040. 270	-	○	-	○	-	1/8 BSPP	20	10	13.8	-	14	20 g	
	061. 220	-	○	-	○	-	1/4 BSPP	20	10	16.8	-	17	25 g	
	040. 271	-	-	○	○	-	3/8 BSPP	20	10	21.5	-	22	25 g	
For all nozzles with 3/8" male thread.	040. 271	-	-	-	-	○	3/8 BSPP	20	10	24.5	-	22	25 g	
	040.228. xx.yy*	-	○	-	-	-	1/4 BSPP	-	18	12	17	-	16 g	
For all nozzles with 1/4" male thread.	065. 210	○	-	○	○	○	3/8 BSPP	-	18	10	17.2	11.5	-	20 g
	065. 610	○	-	○	-	○	3/4 BSPP	-	27	14	28	18	-	61 g
For all nozzles with 3/8" male thread.	065. 217. xx. yy*	-	-	○	-	-	3/8 BSPP	-	15	10	17.2	11.5	-	20 g
	065. 215 ¹⁾	-	-	○	○	-	3/8 BSPP	1/4 BSPP	25	10	10	7	22	30 g
For all nozzles with 3/8" male thread.	065. 211	-	-	○	○	-	3/8 BSPP	3/8 BSPP	25	10	11.5	-	22	25 g
	065. 611	-	-	○	○	-	3/4 BSPP	3/4 BSPP	35	14	18	-	32	90 g

* Replace **xx** by material no. and **yy** by radius R

¹⁾ Not to be used with non-return valve or filter.

Example for ordering: Type 040. 270 + Material no. 1Y = Ordering no. 040. 270. 1Y

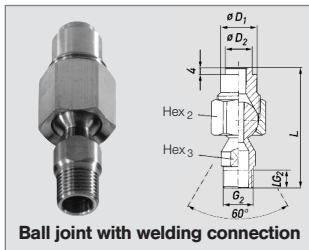
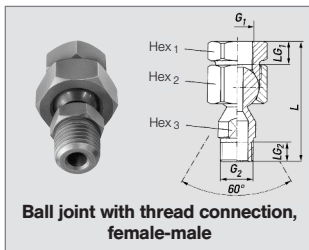
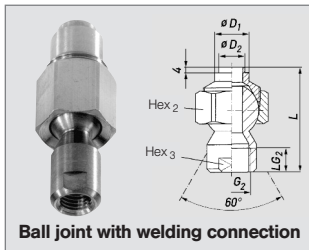
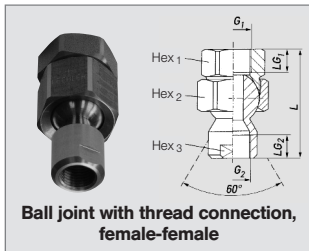




Accessories

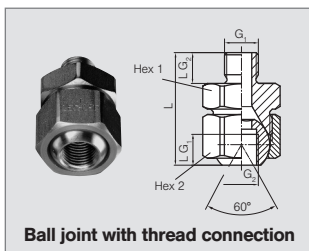
Ball joints

Allround swivelling action of 30°.
No sealings, no wear.
Long service life even after many adjustments.
 P_{max} : 25 bar.



For series	Ordering no.				Dimensions [mm]											Weight (Brass)
	Type	Material no.			Code	D ₁	D ₂	G ₁ BSPP	G ₂ BSPP	L _{G1}	L _{G2}	L	Hex ₁	Hex ₂	Hex ₃	
		16 303 SS/316Ti SS	16 303 SS	30 Brass												
For all nozzles with 1/4" male thread.	092.020	-	○	○	AD	-	-	1/4	1/4	12.0	11.5	60.3	27	27	17	60 g
	092.021	-	○	○	AF	-	-	3/8	1/4	12.0	11.5	58.3	27	27	17	80 g
For all nozzles with 3/8" male thread.	092.030	-	○	○	AF	-	-	3/8	3/8	12.0	12.0	56.7	27	30	19	80 g
For all nozzles with 1/4" male thread.	092.020	○	-	-	SD	20.0	15.0	-	1/4	-	11.5	64.3	-	27	17	60 g
For all nozzles with 3/8" male thread.	092.030	○	-	-	SF	22.0	15.0	-	3/8	-	12.0	58.7	-	30	19	80 g
2TR/216/302/308/350 548/468/679/684/652	092.022	-	○	○	AD	-	-	1/4	3/8	12.0	10.0	63.8	27	27	17	80 g
	092.022	-	○	○	AF	-	-	3/8	3/8	12.0	10.0	61.8	27	27	17	85 g
2TR/216/302/308/350 548/468/679/684/652	092.022	○	-	-	SE	20.0	15.0	-	3/8	-	10.0	67.8	-	27	17	80 g

Compact ball joints for narrow installation conditions

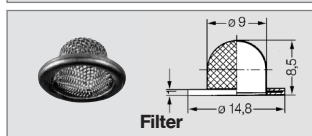
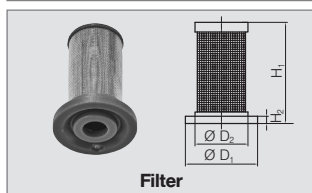
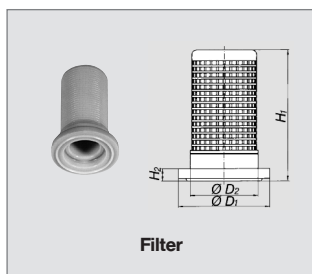
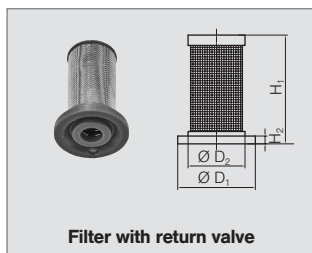
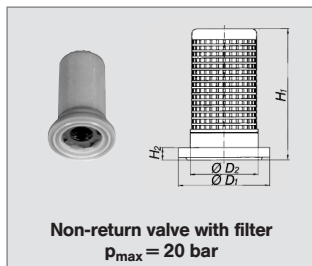


For all nozzles with 1/8" male thread.	092.010	-	○	○	AA	-	-	1/8	1/8	8.0	8.0	29.3	22	24	-	70 g
For all nozzles with 1/4" male thread.	092.024	-	○	○	AC	-	-	1/4	1/4	12.0	12.0	44	27	27	-	140 g
For all nozzles with 3/8" male thread.	092.030	-	○	○	AE	-	-	3/8	3/8	12.0	12.0	44	27	30	-	160 g



Accessories

Non-return valves / filters



For nozzle size	Ordering no.		56	53	26	Colour	Opening pressure [bar]	Closing pressure [bar]	Mesh size [mm]	Dimensions [mm]				Weight		
	Type	Mat.-no.								H ₁	H ₂	D ₁	D ₂			
		POM													Polypropylen	Monel/Copper
xxx.32x- xxx.44x	065.265	Ball AISI 420	○	-	-	blue	0.5-1.0	0.4-0.9	0.25	21.5	2.0	14.8	11.0	2 g		
		Spring AISI 301														
xxx.48x- xxx.56x	065.266	Ball AISI 420	○	-	-	red	0.4-0.5	0.35-0.45	0.65	21.5	2.0	14.8	11.0	2 g		
		Spring AISI 301														
xxx.14x- xxx.36x	095.016.53.11.00	Ball 304 SS	-	○	-	blue	approx. 0.5	approx. 0.3	0.08	21.0	1.6	15.0	11.0	2 g		
		Spring AISI 301														
xxx.14x- xxx.36x	095.016.53.14.63	Ball 304 SS	-	○	-	green	approx. 2.8	approx. 1.6	0.08	21.0	1.6	15.0	11.0	2 g		
		Spring AISI 301														
xxx.32x- xxx.44x	065.257		○	-	-	blue	-	-	0.25	21.5	2.0	14.8	11.0	2 g		
xxx.48x- xxx.56x	065.256		○	-	-	red	-	-	0.65	21.5	2.0	14.8	11.0	2 g		
xxx.14x- xxx.36x	095.016.53.15.62		-	○	-	light pink	-	-	0.08	21.0	1.6	15.0	11.0	1 g		
xxx.32x- xxx.44x	065.252		-	-	○	-	-	-	0.50	8.5	1.0	14.8	9.0	1 g		

Example for ordering: Type 065. 265 + Material no. 56 = Ordering no. 065. 265. 56



Accessories

Gaskets / Teflon sealing tape



For series	For nozzle size	Ordering no.				Dimensions [mm]	Weight ca.	
		Type	Material no.					
			55 PTFE	71 Cu. ISOPL 750	72 EWP 210 (asbestos free)			73 Soft rubber
610	1/8 BSPP	061. 040	-	-	○	-	∅ 10 x ∅ 14 x 1	0.13 g
220/612	1/4 BSPP	061. 240	○	○*	○	-	∅ 13.2 x ∅ 17 x 1(*2)	0.20 g
460/461/ 490/491/ 616/617/ 689	3/4 BSPP	061. 640	-	○*	○	-	∅ 26.5 x ∅ 32 x 1(*2.5)	0.50 g
405	1 1/4 BSPP	062. 140	-	-	○	-	∅ 42 x ∅ 50 x 1	1.20 g
405	2 BSPP	062. 540	-	-	○	-	∅ 60 x ∅ 70 x 2	3.92 g
226/468/ 652/679/ 684	retaining nut 3/8"	065. 240	○	-	○	○	∅ 11 x ∅ 15 x 1	0.14 g
656/657	retaining nut 3/4"	065. 640	-	-	○	-	∅ 18 x ∅ 24 x 1	0.50 g

Teflon sealing tape for connecting cylindrical female threads and conical male threads.	Ordering no. 095. 009. 55. 09. 30.0	Dimensions: 12 mm x 0.1 mm x 12 m
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Example	Type	+	Material no.	=	Ordering no.
for ordering:	061. 040	+	72	=	061. 040. 72