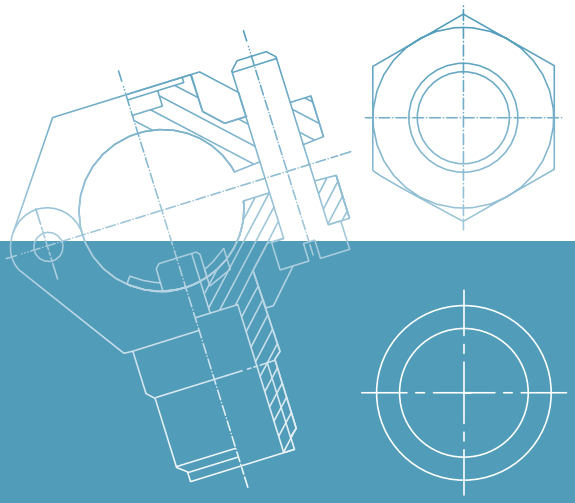
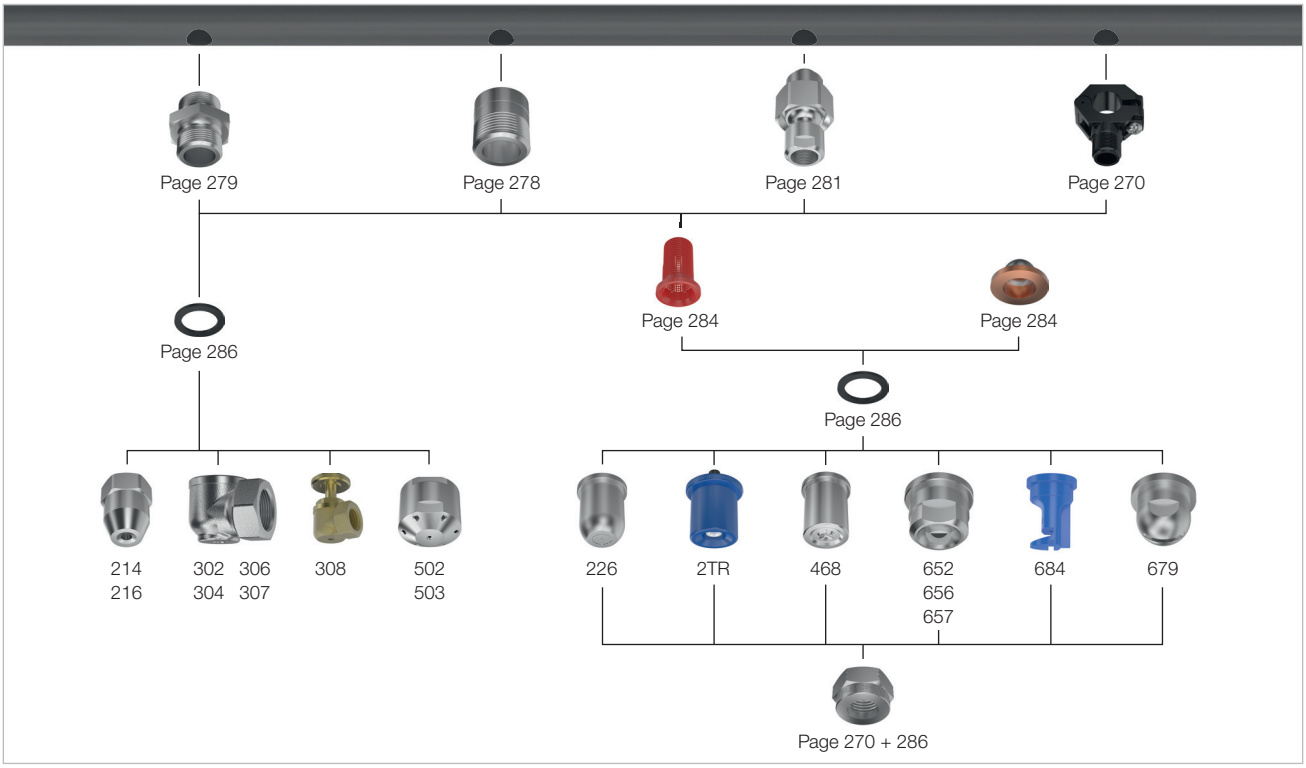
ACCESSORIES

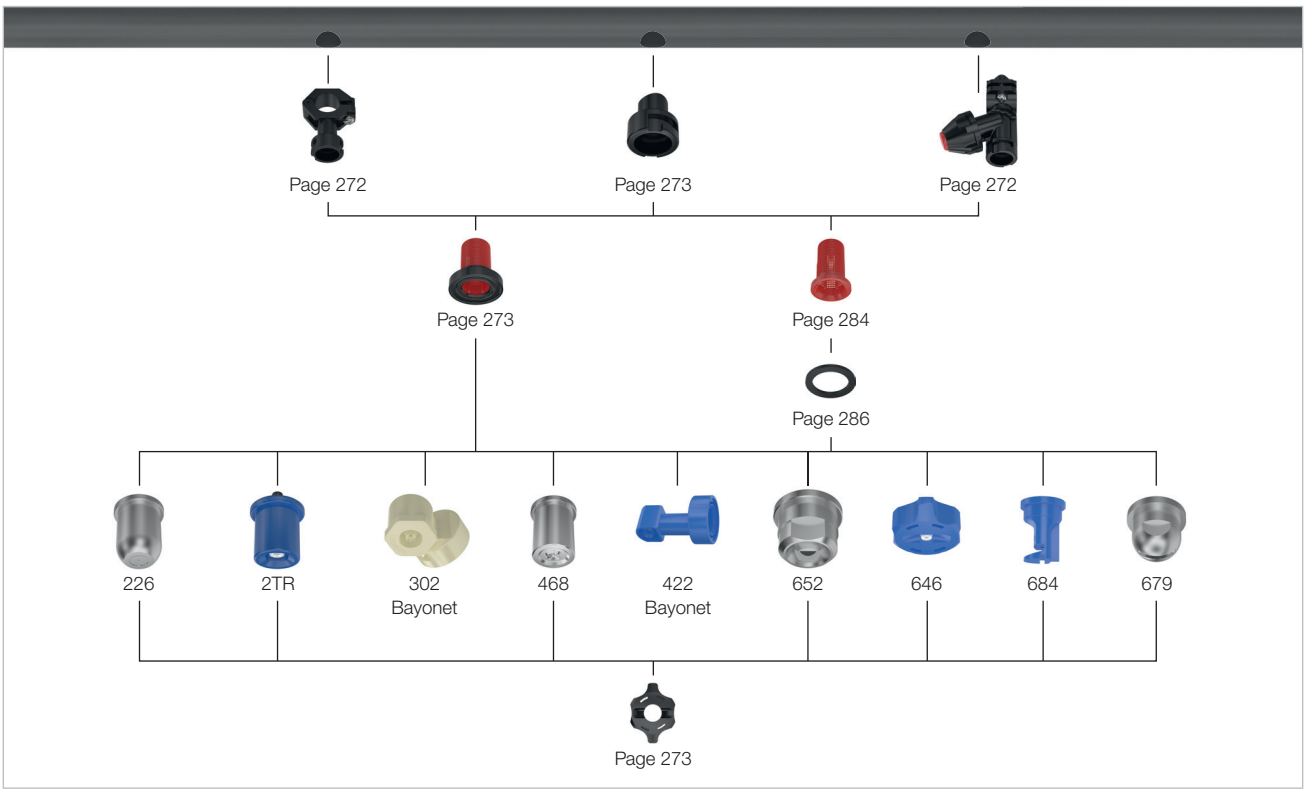


NOZZLE FASTENING
ASSEMBLING OPTIONS FOR ALL PURPOSES

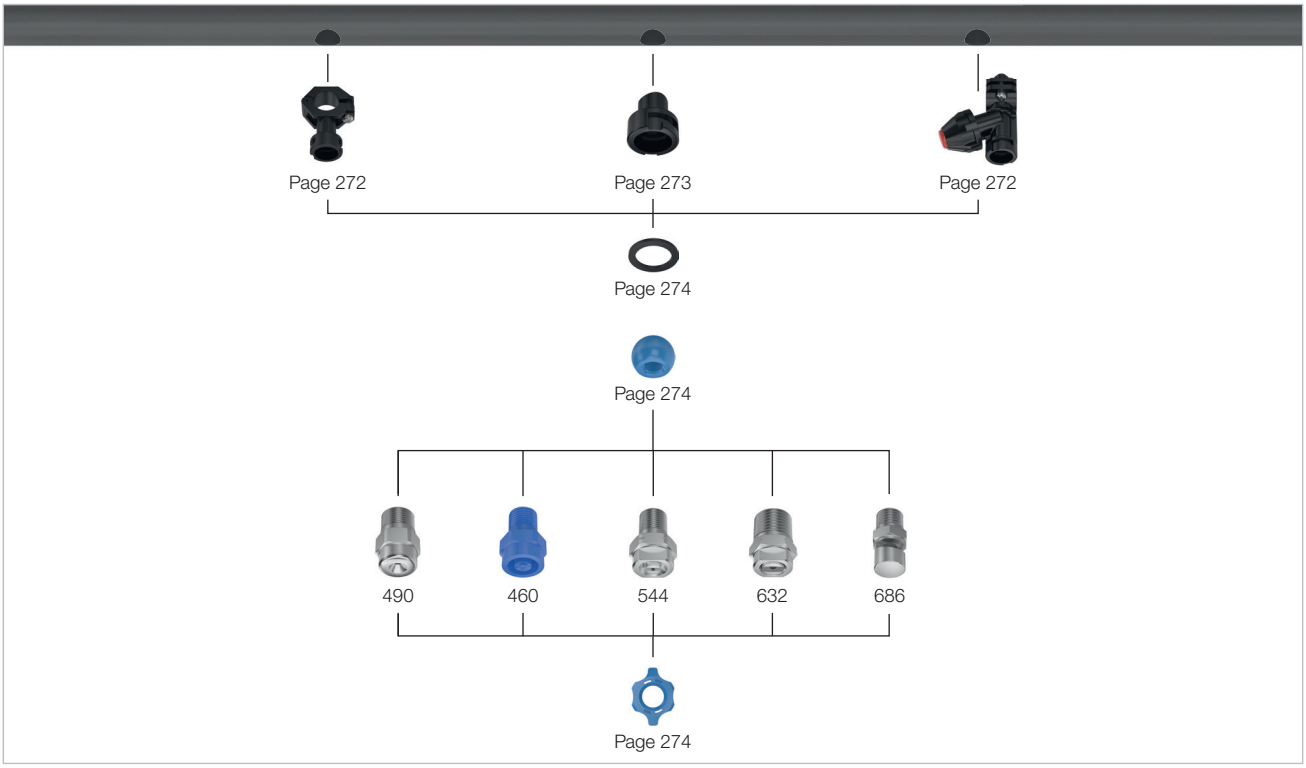
Assembly accessories for nozzles without thread or with female thread



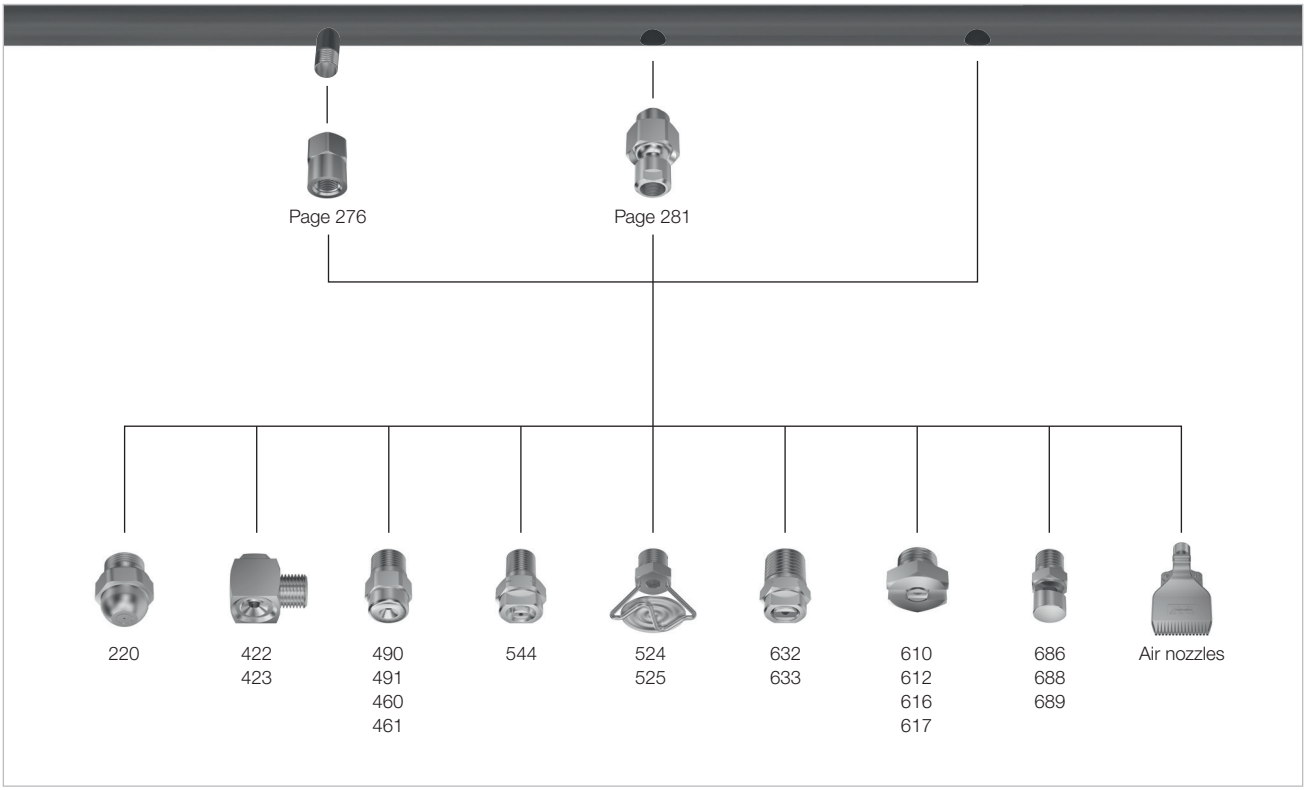
Bayonet quick-release system for nozzles without thread or with bayonet connection



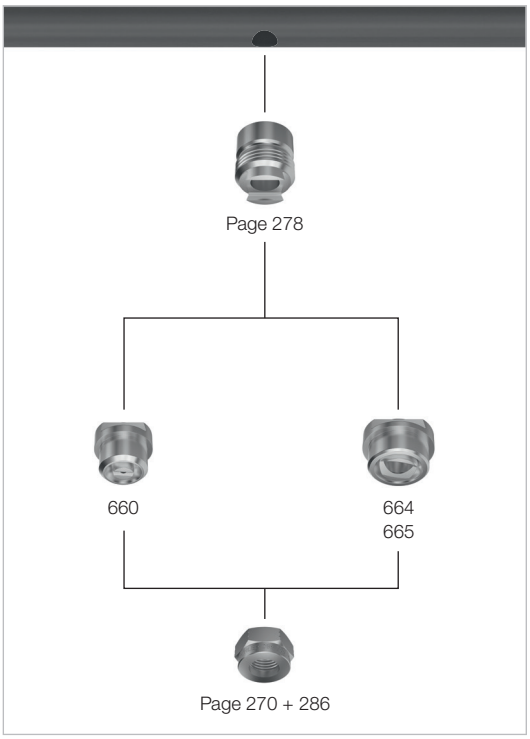
Bayonet quick-release system with ball joint for nozzles with male thread



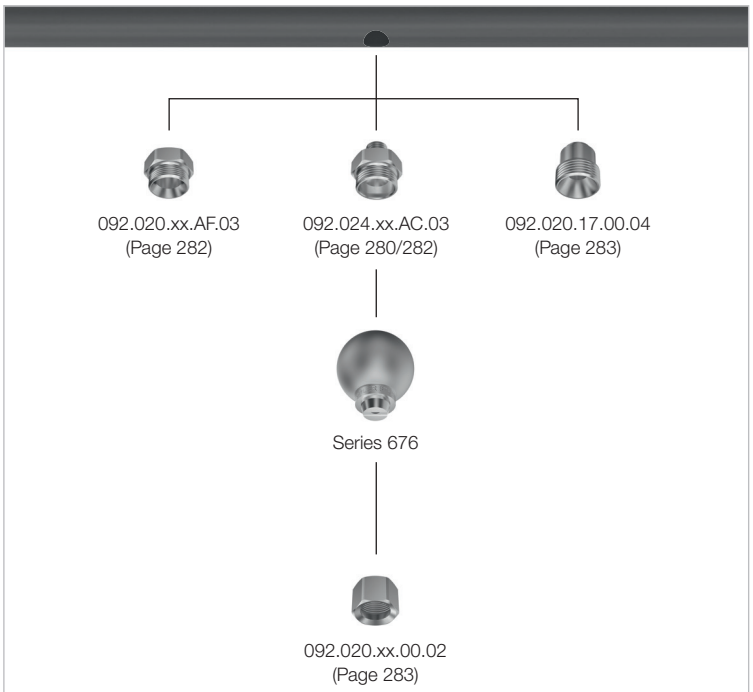
Assembly accessories for nozzles with male thread



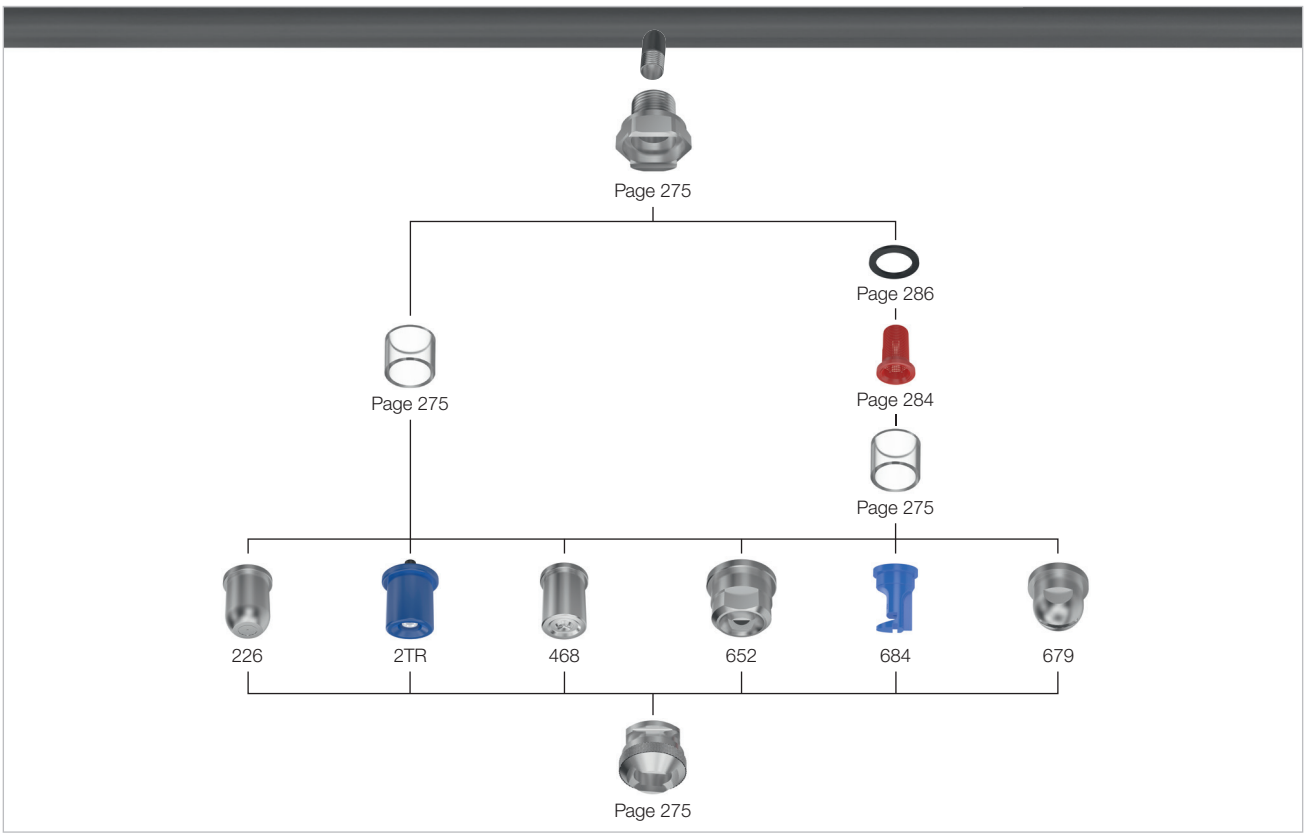
Assembly accessories for nozzles with dovetail version



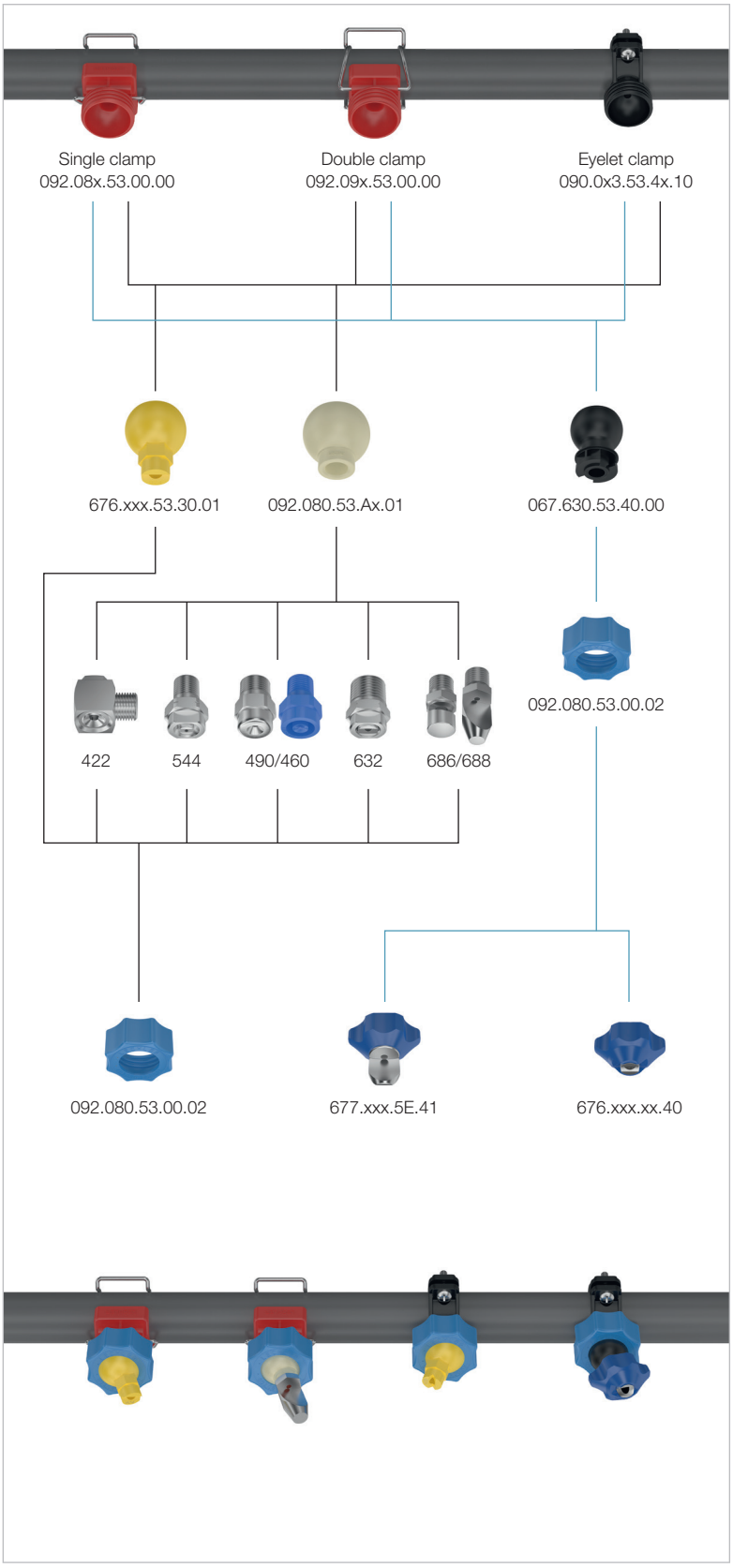
Assembly accessories for nozzles with integrated ball joint

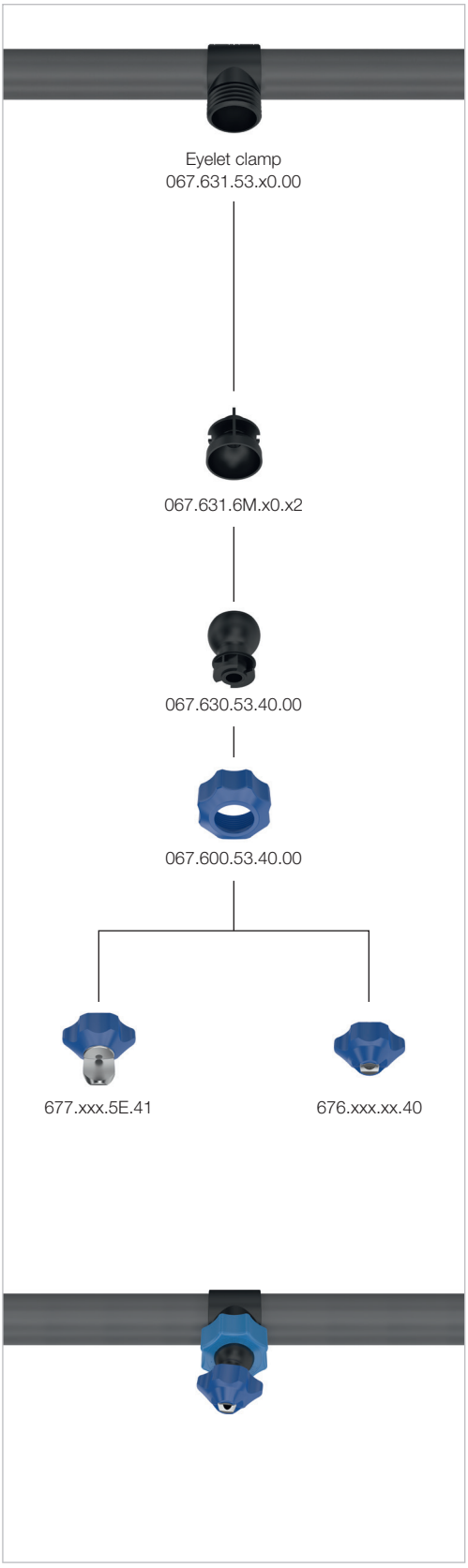


TWISTLOC quick-release system for nozzles without thread



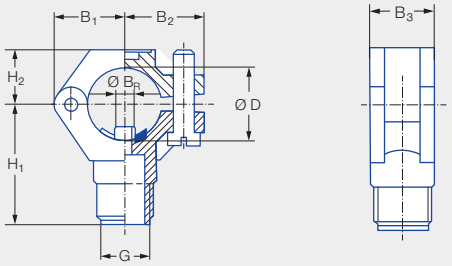
MEMOSPRAY/Easy-Clip combination options





Eyelet clamps
with male thread

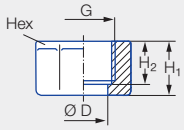
Eyelet clamps with male thread



Series	Ordering no.				Screw (material)	G BSPP	Pipe Ø	Dimensions [mm]								Weight [g] (polyamide)
	Type	Mat. no.														
		51 Black	53 White	5E Blue												
		Polyam-ide	Polypro-pylene	PVDF				B_1	B_2	B_3	H_1	H_2	Ø B_R[1]	Ø B^2	Ø D	
226/2TR/ 216/302/ 308/350/468/ 652/679/684	090.053	●	●	●	Stainless steel 304	3/8	3/8"	19.0	22.0	18.5	34.5	14.5	6.0	6.2-6.4	16.5–18.0	20.0
	090.003	●	●	●		3/8	1/2"	21.2	23.8	18.5	36.5	16.5	6.0	6.2-6.4	20.0–22.0	20.0
	090.013	●	●	●		3/8	3/4"	24.5	26.5	22.0	39.5	17.5	7.6	7.8-8.0	25.0–27.5	25.0
	090.023	●	●	●		3/8	1"	30.0	31.0	22.0	44.0	21.0	10.6	10.8-11.0	32.0–34.5	32.0
	090.033	●	●	●		3/8	1 1/4"	34.0	35.5	25.0	48.0	25.0	12.6	12.8-13.0	40.0–43.0	38.0

[1] Ø B_R = spigot diameter.
[2] Ø B = recommended bore diameter.

Retaining nuts for eyelet clamps



Series	Ordering no.						G BSPP	Dimensions [mm]				Weight [g]
	Type	Mat. no.										
		16	17[1]	30	56 Black	5E Blue						
		Stainless steel 303	Stainless steel 316Ti	Brass	POM	PVDF		H_1	H_2	Ø D	Hex	
226/2TR/ 468/548/ 652/660/679/ 684	065.200	●	●	●			3/8	13.0	10.0	12.8	22	25.0 (Brass)
	065.200				●	●	3/8	14.5	11.5	12.8	22	5.0 (PVDF)

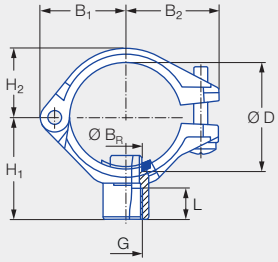
[1] We reserve the right to supply material 316Ti or 316L under material no. 17.

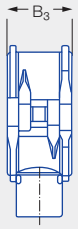
Ordering example:	Type	+	Material no.	=	Ordering no.
	090.053	+	51	=	090.053.51

Strainers and ball-type non-return valves can be found on Page 284/285.

Eyelet clamps
with female thread

Eyelet clamps with female thread





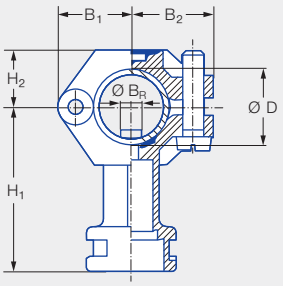
For all nozzles with	Ordering no.						Screw (material)	Pipe Ø	Dimensions [mm]									Weight [g] (polyamide)
	Type	Mat. no.			Code													
		51 Black	**53** White	**5E** Blue														
		Polyamide	Polypropylene	PVDF	1/8 BSPP	1/4 BSPP			B_1	B_2	B_3	H_1	H_2	L	Ø B_R[1]	Ø B^2	Ø D	
Male thread 1/8 BSPP 1/4 BSPP	**090.100**	●	●	●	**AB**	**AD**	Stainless steel 316	3/8"	20.0	23.0	18.5	28.0	14.0	12.0	6.0	6.2–6.4	16.5–18.0	18.0
	090.110	●	●	●	**AB**	**AD**		1/2"	22.0	25.0	18.5	31.0	16.0	12.0	6.0	6.2–6.4	20.0–22.0	19.0
	090.120	●	●	●	**AB**	**AD**		3/4"	25.0	28.0	22.0	33.0	19.0	12.0	7.6	7.8–8.0	25.0–27.5	24.0
	090.130	●	●	●	**AB**	**AD**		1"	30.0	33.0	22.0	36.0	23.0	12.0	10.6	10.8–11.0	32.0–34.5	34.0
	090.140	●	●	●	**AB**	**AD**		1 1/4"	34.0	37.0	25.0	40.0	28.0	12.0	12.6	12.8–13.0	40.0–43.0	39.0

[1] Ø B_R = spigot diameter.
[2] Ø B = recommended bore diameter.

Ordering example:	Type	+	Material no.	+	Code	=	Ordering no.
	090.100	+	51	+	AB	=	090.100.51.AB

Eyelet clamps
with bayonet connection

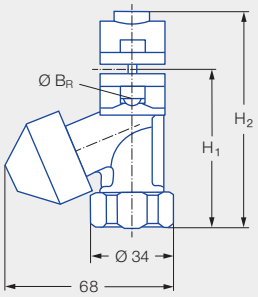
Eyelet clamps with bayonet quick-release system

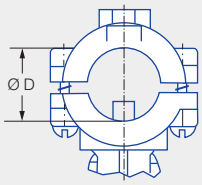


Series	Ordering no.					Screw (material)	Pipe Ø	Dimensions [mm]								Weight [g] (Polyamide)
	Type	Mat. no. 51 Black Polyamide	Mat. no. 53 White Polypropylene	Mat. no. 5E Blue PVDF	Code			B_1	B_2	B_3	H_1	H_2	Ø B_R[1]	Ø B^2	Ø D	
226/2TR/ 302 bayonet/ 422 bayonet/ 468/652/646/ 684/679	090.003	●	●	●	KA	Stainless steel 304	1/2"	21.2	23.8	18.5	49.5	16.5	6.0	6.2–6.4	20.0–22.0	22.0
	090.013	●	●	●	KA		3/4"	24.5	26.5	22.0	52.5	17.5	7.6	7.8–8.0	25.0–-27.5	26.0
	090.023	●	●	●	KA		1"	30.0	31.0	22.0	57.0	21.0	10.6	10.8–-11.0	32.0–-34.5	32.0

[1] Ø B_R = spigot diameter.
[2] Ø B = recommended bore diameter.

Diaphragm non-return valve with bayonet quick-release system





Series	Ordering no.			Screw (material)	Pipe Ø	Ø D [mm]	Pressure [bar]		Dimensions [mm]				Weight [g]
	Type	Mat. no. 56 Black POM	Code				Opening pressure	Closing pressure	H_1	H_2	Ø B_R[1]	Ø B^2	
226/2TR/ 302 bayonet/ 422 bayonet/ 468/652/646/ 684/679	065.272	●	KH	Stainless steel 303	1/2"	20.0–22.0	0.8	0.6	59.0	84.0	6.0	6.2–6.4	48.0
	065.272	●	KL		3/4"	25.0–27.5	0.8	0.6	66.0	90.0	9.6	9.8–10.0	53.0

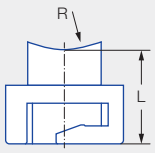
[1] Ø B_R = spigot diameter.
[2] Ø B = recommended bore diameter.

Material	Max. temperature [°C]	Max. pressure [bar]
PA, PP, PVDF, POM	65	10
PA, PP, PVDF, POM	80	8
PVDF	100	4

Notice: Please consider the material combination when using bayonet eyelet clamps with bayonet quick-release system nuts. The nuts may be difficult to turn when using different materials.

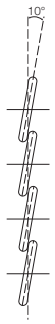
Accessories
for bayonet system

Bayonet welded nipple



Series	Ordering no.			Dimensions [mm]		Weight [g]
	Type	Mat. no.				
		50	53			
		PVC	Polypropylene	L	R	
226/2TR/302 bayonet/ 422 bayonet/468/ 652/646/684/679	095.016.xx.08.05[1]	●	●	25.0	16.0	10.0

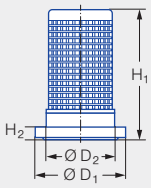
[1] Replace "xx" with the desired material no.



Twist angle to the right in relation to the pipe axis. Twist angle 10°. Other twist angles available on request.

Strainer with gasket

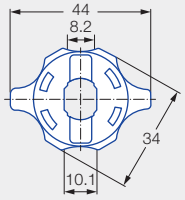
Suitable for bayonet quick-release system nuts 065.202



Performance size	Ordering no.		Colour	Dimensions [mm]					Weight [g]
	Type	Mat. no.							
		POM/Santoprene		Mesh size	H_1	H_2	Ø D_1	Ø D_2	
xxx.32x–xxx.44x	065.268.7J.25	●	Red	0.3	19.2	3.0	18.0	12.0	2.0
xxx.48x–xxx.56x	065.268.7J.60	●	Blue	0.5	19.2	3.0	18.0	12.0	2.0

Bayonet quick-release system nuts

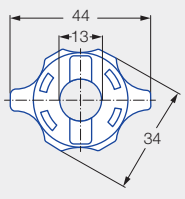
Incl. gasket 065.242.73 (material: Rubber)



Series	Ordering no.				Colour	Weight [g]
	Type	Mat. no.				
		POM	Polypropylene	PVDF		
652/679	065.202.56.00	●			Red	10.0
	065.202.53.00		●		Grey	10.0
	065.202.5E.00			●	Blue	10.0

Bayonet quick-release system nuts

Incl. gasket 065.242.73 (material: Rubber)



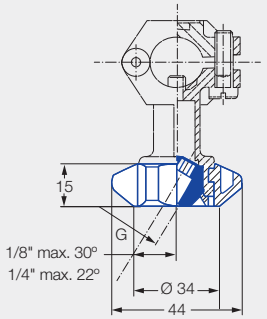
Series	Ordering no.			Colour	Weight [g]
	Type	Mat. no.			
		POM	Polypropylene		
226/2TR/ 468/684	065.202.56.11	●		Black	10.0
	065.202.53.11		●	Grey	10.0

Notice: Please consider the material combination when using bayonet eyelet clamps with bayonet quick-release system nuts. The nuts may be difficult to turn when using different materials.

Ball joints for bayonet quick-release system

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

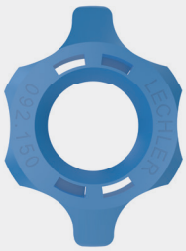
Ball joint for eyelet clamps with bayonet quick-release system

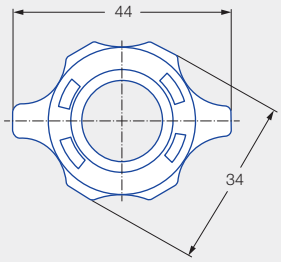


For all nozzles with 1/8" or 1/4" male thread	Ordering no.				Colour	Weight [g]
	Type	Mat. no.	Code			
		PVDF	1/8 BSPP	1/4 BSPP		
Ball joint	**092.150**	**5E**	**AB**	**AD**	Blue	5.0

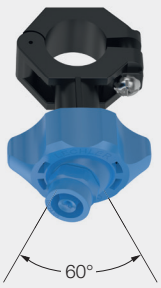
Bayonet quick-release system nut for ball joint

Incl. O-ring
Ordering no. 095.015.7C.04.16
(material: 72 NBR 872)





For all nozzles with 1/8" or 1/4" male thread	Ordering no.		Colour	Weight [g]
	Type	Mat. no.		
		PVDF		
Quick-release system nut	**092.150.5E.00**	●	Blue	28.0



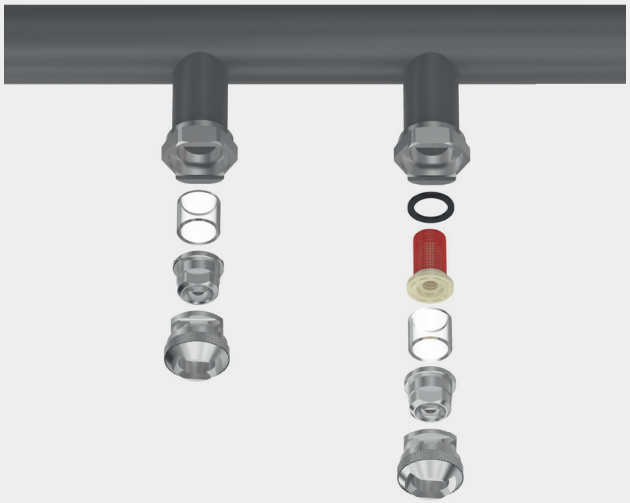
Max. temperature [°C]	Max. pressure [bar]
65	10
80	8
100	4

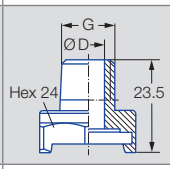
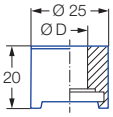
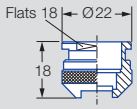
Ordering example:	Type	+	Material no.	+	Code	=	Ordering no.
	092.150	+	5E	+	AB	=	092.150.5E.AB

TWISTLOC
Quick-change nozzle system

Lechler TWISTLOC,
nozzle changing in less than no time.
Save time and money with the quick-change nozzle system.

- **Quick:**
  It takes just one twist to install or remove the nozzle.
- **Easy:**
  Can be installed without tools – even in difficult-to-access locations and in bad lighting conditions.
- **Safe:**
  Installation errors are avoided, as the nozzles are always set to the correct direction.
- **Max. pressure:**
  15 bar.

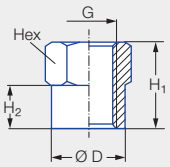


System components		Ordering no. Type	Mat. no. 1C Stainless steel 304	Mat. no. 16 Stainless steel 303	Mat. no. 5E PVDF	Mat. no. 7A Viton	Code 1/4 BSPT	Code 3/8 BSPT	Code Welded connection	Inner Ø D [mm]	Weight [g]
Threaded nipple		**092.102**		●			**CC**			8.0	25.0
		092.102		●				**CE**		11.6	25.0
		092.102			●			**CE**		8.0	10.0
Welded nipple		**092.104**	●						**00**	11.6	45.0
Gasket for material 304 SS and 303 SS		**092.113**				●				–	1.0
Gasket for material PVDF		**092.115**				●				–	1.0
Gasket, incl. rubber gasket ring for use with non-return valves or strainers		**092.116**				●				–	2.0
Gasket, incl. rubber gasket ring for use with non-return valves or strainers, for PVDF material		**092.114**				●				–	2.0
Quick-release system For nozzle series 652/679		**092.106**		●	●					–	20.0 (stainless steel)
Quick-release system For nozzle series 226/494/684		**092.108**		●	●					–	20.0 (stainless steel)

Non-return valves, strainers
For installation in nipples with inner Ø 11.6 mm (see Page 284/285).

Ordering example:	Type 092.102	+	Material no. 16	+	Code CC	=	Ordering no. 092.102.16.CC

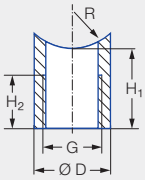
Sockets



For all nozzles with	Ordering no.					G BSPP	Dimensions [mm]				Weight [g] (Brass)
	Type	Mat. no.									
		1Y	17	30	53						
		Stainless steel 316L	Stainless steel 316Ti	Brass	Polypropyl-ene		H_1	H_2	Ø D	Hex	
1/8" male thread	040.270	●		●		1/8	20.0	10.0	13.8	14	20.0
1/4" male thread	061.220	●		●		1/4	20.0	10.0	16.8	17	20.0
3/8" male thread	040.271	●		●		3/8	20.0	10.0	21.8	22	25.0
	040.271				●	3/8	20.0	11.0	25.0	22	25.0
1/2" male thread	040.272		●	●		1/2	30.0	15.0	26.5	27	70.0
3/4" male thread	061.620		●	●		3/4	40.0	20.0	31.5	32	108.0

Notice: Sockets are also suitable for welding.

Sockets with radius

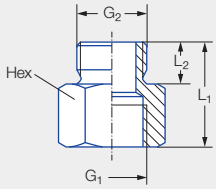


For all nozzles with	Ordering no.		G BSPP	Dimensions [mm]			Weight [g]
	Type	Mat. no.					
		1Y					
		Stainless steel 316L		H_1	H_2	Ø D	
1/4" male thread	040.228.1Y.yy[1]	●	1/4	18.0	12.0	17.0	16.0

[1] Replace “yy” with the desired radius R (R = 10/13/16/20/25 or 31 mm).

Ordering example:	Type	+	Material no.	=	Ordering no.
	040.270	+	1Y	=	040.270.1Y

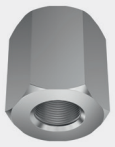
Sockets

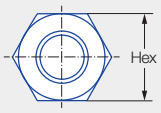


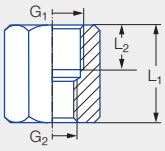
Connection components	Ordering no.			G_1 BSPP	G_2 BSPP	Dimensions [mm]			Weight [g] (Brass)
	Type	Mat. no. 17 Stainless steel 316Ti	Mat. no. 30 Brass			L_1	L_2	Hex	
1/8" to 3/8"	**040.211**	●	●	1/8	3/8	20.0	10.0	22	40.0
1/4" to 3/8" short	**065.221**	●	●	1/4	3/8	23.0	10.0	22	40.0
1/4" to 3/8" long	**065.228**	●	●	1/4	3/8	36.0[1]	14.0	19	45.0
3/8" to 3/8"	**065.220**	●	●	3/8	3/8	25.0	10.0	22	40.0
3/4" to 3/4"	**065.620**	●	●	3/4	3/4	35.0	14.0	32	280.0

[1] Mounting of nozzle filters and ball-type non-return valves possible (see Page 284/285).

Reduction socket



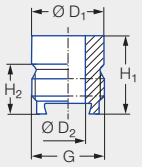




Connection components	Ordering no.			G_1 BSPP	G_2 BSPP	Dimensions [mm]			Weight [g]
	Type	Mat. no. 1Y Stainless steel 316L	Mat. no. 30 Brass			L_1	L_2	Hex	
3/8" to 1/4"	**095.019.30.00.23**		●	3/8	1/4	26.0	12.0	22	55.0

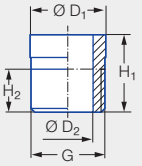
Ordering example:	Type	+	Material no.	=	Ordering no.
	040.211	+	17	=	040.211.17

Welded nipple with dovetail guide



Series	Ordering no.		G BSPP	Dimensions [mm]				Weight [g]
	Type	Mat. no. 17 Stainless steel 316Ti		H_1	H_2	Ø D_1	Ø D_2	
660	**066.011**	●	3/8	18.0	11.5	16.5	8.0	21.0
664/665	**066.410**	●	3/4	27.0	15.5	28.0	14.0	65.0

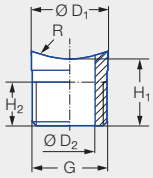
Welded nipple



Series	Ordering no.					G BSPP	Dimensions [mm]				Weight [g] (Brass)
	Type	Mat. no. 02 Steel	17 Stainless steel 316Ti	30 Brass	53 Polypro-pylene		H_1	H_2	Ø D_1	Ø D_2	
226/216/2TR/302/308/350/ 468/652/684/548/679	**065.210**	●	●	●	●	3/8	18.0	10.0	17.2	11.6	20.0
306/307/502/ 503/656/657	**065.610**	●	●		●	3/4	27.0	14.0	28.0	18.0	61.0

Ordering example:	Type	+	Material no.	=	Ordering no.
	066.011	+	17	=	066.011.17

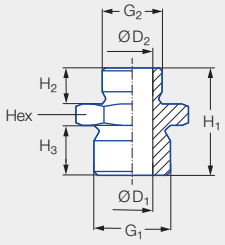
Welded nipple with radius



Series	Ordering no.		G BSPP	Dimensions [mm]				Weight [g]
	Type	Mat. no. 17 Stainless steel 316Ti		H_1	H_2	Ø D_1	Ø D_2	
226/216/2TR/302/308/350/ 468/652/684/548/679	**065.217.17.yy**[1]	●	3/8 A	15.0	10.0	17.2	11.5	20.0
306/307/502/503/656/657	**065.612.17.yy**[1]	●	3/4 A	23.0	14.0	28.0	18.0	61.0

[1] Replace “yy” with the desired radius R (R = 10/13/16/20/25 or 31 mm).

Double nipple



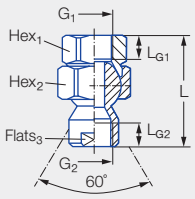
Series	Ordering no.			G_1 BSPP	G_2 BSPP	Dimensions [mm]						Weight [g] (Brass)
	Type	Mat. no. 17 Stainless steel 316Ti	Mat. no. 30 Brass			H_1	H_2	H_3	Ø D_1	Ø D_2	Hex	
226/216/2TR/ 302/308/350/ 468/652/684/ 548/679	**065.215**[1]	●	●	3/8	1/4	25.0	10.0	10.0	10.0	7.0	22	30.0
	065.215.xx.02[2]	●	●	3/8	1/4	35.0	10.0	10.0	11.6	7.0	22	32.0
	065.211	●	●	3/8	3/8	25.0	10.0	10.0	11.5	–	22	25.0
	065.211.xx.04[2]	●	●	3/8	1/2	30.0	10.0	14.0	11.5	–	27	62.0
306/307/502/503/ 656/657	**065.611**	●	●	3/4	3/4	35.0	14.0	14.0	18.0	–	32	90.0

[1] Not to be used with non-return valve or strainer.
[2] Replace "xx" with the desired material no.

Ordering example:	Type	+	Material no.	=	Ordering no.
	065.217.17.yy	+	17	=	065.217.17.yy.17

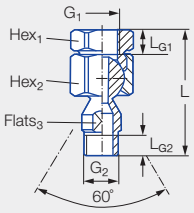
Ball joints
with threaded connection

Ball joints with female thread



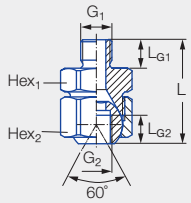
For all nozzles with	Ordering no.				G_1 BSPP	G_2 BSPP	Dimensions [mm]						Weight [g] (Brass)
	Type	Mat. no. 16 Stainless steel 303	Mat. no. 30 Brass	Code			L	L_{G1}	L_{G2}	Hex_1	Hex_2	Flats	
1/8" male thread	092.010	●	●	AB	1/8	1/8	43.1	8.0	8.0	22	24	13	110.0
1/4" male thread	092.020	●	●	AD	1/4	1/4	60.3	12.0	11.5	27	27	17	200.0
	092.021	●	●	AF	3/8	1/4	58.3	12.0	11.5	27	27	17	160.0
3/8" male thread	092.030	●	●	AF	3/8	3/8	56.0	12.0	12.0	27	30	19	185.0
1/2" male thread	092.040	●	●	AH	1/2	1/2	71.0	15.5	15.5	36	41	24	425.0
3/4" male thread	092.050	●	●	AL	3/4	3/4	80.0	17.0	17.0	41	46	30	595.0

Ball joints with male thread



Series	Ordering no.				G_1 BSPP	G_2 BSPP	Dimensions [mm]						Weight [g] (Brass)
	Type	Mat. no. 16 Stainless steel 303	Mat. no. 30 Brass	Code			L	L_{G1}	L_{G2}	Hex_1	Hex_2	Flats	
226/216/2TR/ 302/308/350/ 468/652/684/ 548/679	092.022	●	●	AD	1/4	3/8	64.0	12.0	10.0	27	27	17	135.0
	092.022	●	●	AF	3/8	3/8	62.0	12.0	10.0	27	27	17	165.0

Compact ball joints

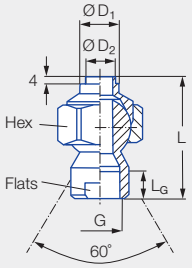


For all nozzles with	Ordering no.				G_1 BSPP	G_2 BSPP	Dimensions [mm]					Weight [g] (Brass)
	Type	Mat. no. 16 Stainless steel 303	Mat. no. 30 Brass	Code			L	L_{G1}	L_{G2}	Hex_1	Hex_2	
1/8" male thread	092.010	●	●	AA	1/8	1/8	29.3	8.0	8.0	22	24	70.0
1/4" male thread	092.024	●	●	AC	1/4	1/4	44.0	12.0	12.0	27	27	140.0
3/8" male thread	092.030	●	●	AE	3/8	3/8	44.0	12.0	12.0	27	30	160.0

Ordering	Type	+	Material no.	+	Code	=	Ordering no.
example:	092.010	+	16	+	AB	=	092.010.16.AB

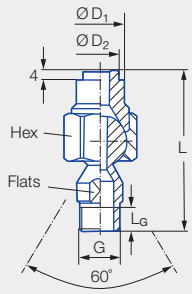
Ball joints
with welding connection

Ball joints with welding connection and female thread



For all nozzles with	Ordering no.				G BSPP	Dimensions [mm]						Weight [g] (Brass)
	Type	Mat. no. 16 Stainless steel 303/316Ti	Mat. no. 30 Brass/Stainless steel 1.0159	Code		L	L_G	Ø D_1	Ø D_2	Hex	Flats	
1/8" male thread	092.010	●	●	SB	1/8	43.0	8.0	18.0	12.0	24	13	70.0
1/4" male thread	092.020	●	●	SD	1/4	64.5	11.5	20.0	15.0	27	17	150.0
3/8" male thread	092.030	●	●	SF	3/8	59.0	12.0	22.0	15.0	30	19	165.0
1/2" male thread	092.040	●	●	SH	1/2	71.1	15.5	22.0	15.0	41	24	350.0
3/4" male thread	092.050	●	●	SL	3/4	74.8	17.0	22.0	18.0	46	30	470.0

Ball joints with welding connection and male thread

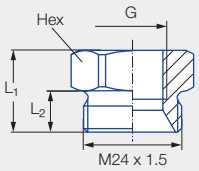


Series	Ordering no.			G BSPP	Dimensions [mm]						Weight [g]
	Type	Mat. no. 16 Stainless steel 303/316Ti	Code		L	L_G	Ø D_1	Ø D_2	Hex	Flats	
226/216/2TR/302/308/350/468/652/684/548/679	092.022	●	SE	3/8 A	68.0	10.0	20.0	15.0	27	17	155.0

Ordering example:	Type	+	Material no.	+	Code	=	Ordering no.
	092.010	+	16	+	SB	=	092.010.16.SB

Accessories for nozzle series 676 with integrated ball joint

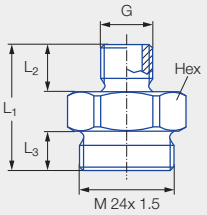
Threaded sockets



Series	Ordering no.			G BSPP	Dimensions [mm]			Weight [g] (Brass)
	Type	Mat. no. 16 Stainless steel 303	Mat. no. 30 Brass		L_1	L_2	Hex	
676	**092.020.xx.AF.03**[1]	●	●	3/8	20.0	10.0	27	50.0

[1] Replace “xx” by material no.

Threaded nipple

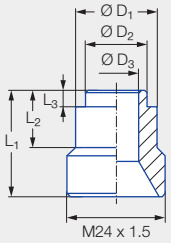


Series	Ordering no.			G BSPP	Dimensions [mm]				Weight [g] (Brass)
	Type	Mat. no. 16 Stainless steel 303	Mat. no. 30 Brass		L_1	L_2	L_3	Hex	
676	**092.024.xx.AC.03**[1]	●	●	1/4	32.0	12.0	10.0	27	70.0

[1] Replace “xx” by material no.

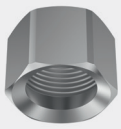
Order example:	Type	+	Material no.	=	Ordering no.
	092.020.xx.AF.03	+	16	=	092.020.16.AF.03

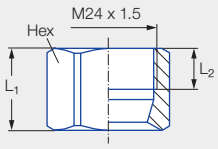
Welded nipple



Series	Ordering no.		Dimensions [mm]						Weight [g]
	Type	Mat. no. 17							
		Stainless steel 316Ti	L_1	L_2	L_3	Ø D_1	Ø D_2	Ø D_3	
676	**092.020.17.00.04**	●	26.0	14.0	4.0	20.0	15.0	11.0	45.0

Retaining nuts





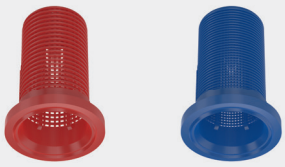
Series	Ordering no.			Dimensions [mm]			Weight [g] (Brass)
	Type	Mat. no. 16	30				
		Stainless steel 303	Brass	L_1	L_2	Hex	
676	**092.020.xx.00.02**[1]	●	●	20.0	10.0	27	35.0

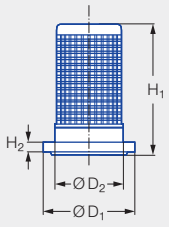
[1] Replace “xx” by material no.

Notice: The assembly accessories shown can be used with the low pressure flat fan nozzle with ball joint (series 676) (see Page 140/141).

Order example:	Type	+	Material no.	=	Ordering no.
	092.020.xx.00.02	+	16	=	092.020.16.00.02

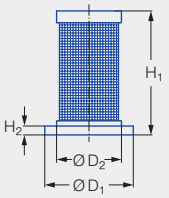
Filter





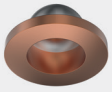
Series	Nozzle size	Ordering no. Type	Mat. no. 56 POM	Colour	Dimensions [mm] Mesh size	H_1	H_2	Ø D_1	Ø D_2	Weight [g]
216/2TR/ 302/468/ 422 bayonet/ 652/646/684	xxx.32x–xxx.44x	**065.257**	●	Blue	0.3	21.4	2.0	14.8	11.0	2.0
	xxx.48x–xxx.56x	**065.256**	●	Red	0.5	21.4	2.0	14.8	11.0	2.0

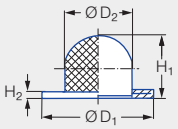
Filter



Series	Nozzle size	Ordering no. Type	Mat. no. 53 Polypropylene	Colour	Dimensions [mm] Mesh size	H_1	H_2	Ø D_1	Ø D_2	Weight [g]
216/2TR/ 302/468/ 422 bayonet/ 652/646/684	xxx.14x-xxx.36x	**095.016.53.15.62** Strainer insert 304 SS	●	Light pink	0.08	21.00	1.60	15.00	11.00	1.00

Cup strainer



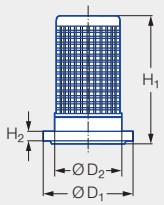


Series	Nozzle size	Ordering no. Type	Mat. no. 26 Monel/Copper	Dimensions [mm] Mesh size	H_1	H_2	Ø D_1	Ø D_2	Weight [g]
216/2TR/ 302/468/ 422 bayonet/ 652/646/684	xxx.32x–xxx.44x	**065.252**	●	0.5	8.5	1.6	14.8	9.0	1.0

Ordering example:	Type	+	Material no.	=	Ordering no.
	065.257	+	56	=	065.257.56

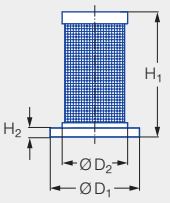
Filters
with ball-type non-return valve

Ball-type non-return valve with integrated filter
p_{max} = 20 bar



Series	Nozzle size	Ordering no.		Colour	Pressure [bar]		Dimensions [mm]					Weight [g]
		Type	Mat. no. 56 POM		Opening pressure	Closing pressure	Mesh size	H_1	H_2	Ø D_1	Ø D_2	
216/2TR/ 302/468/ 422 bayonet/ 652/646/684	xxx.32x–xxx.44x	**065.265** Ball 420 SS Spring 302 SS	●	Blue	0.40–0.50	0.35–0.45	0.30	21.40	2.00	14.80	11.00	2.00
	xxx.48x–xxx.56x	**065.266** Ball 420 SS Spring 302 SS	●	Red	0.40–0.50	0.35–0.45	0.50	21.40	2.00	14.80	11.00	2.00

Ball-type non-return valve with integrated filter

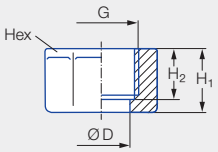


Series	Nozzle size	Ordering no.		Colour	Pressure [bar]		Dimensions [mm]					Weight [g]
		Type	Mat. no. 53 Polypro-pylene		Opening pressure	Closing pressure	Mesh size	H_1	H_2	Ø D_1	Ø D_2	
216/2TR/ 302/468/ 422 bayonet/ 652/646/684	xxx.14x–xxx.36x	**095.016.53.11.00** Strainer insert/ Ball 304 SS Spring 302 SS	●	Blue	approx. 0.50	approx. 0.30	0.08	21.00	1.60	15.00	11.00	2.00
	xxx.14x–xxx.36x	**095.016.53.14.63** Strainer insert/ Ball 304 SS Spring 302 SS	●	Green	approx. 2.80	approx. 1.60	0.08	21.00	1.50	15.00	11.00	2.00

Ordering example:	Type	+	Material no.	=	Ordering no.
	065.265	+	56	=	065.265.56

Retaining nuts and gaskets

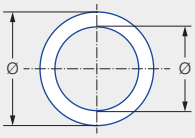
Retaining nuts



Series	Type	Ordering no. Mat. no. 16 Stainless steel 303	17[1] Stainless steel 316Ti	1Y Stainless steel 316L	30 Brass	56 Black POM	5E Blue PVDF	G BSPP	Dimensions [mm] H_1	H_2	Ø D	Hex	Weight [g] (Brass)
226/2TR/ 468/652/660/ 684/548/679	065.200	●	●		●			3/8	13.0	10.0	12.8	22	25.0
	065.200					●	●	3/8	14.5	11.5	13.0	22	25.0
	069.000	●		●	●			UNF 11/16	14.3	9.7	13.1	20.6	25.0
656/657/ 664/665	065.600	●	●		●		●	3/4	16.0	13.0	20.1	32	60.0

[1] We reserve the right to supply material 316Ti or 316L under material no. 17.

Gaskets



Series	Nozzle Code	Ordering no. Type	Mat. no. 55 PTFE	71 Cu. ISO PL. 7504	72 EWP 210 (asbestos-free)	73 Soft rubber	Dimensions [mm]	Weight [g]
610	1/8 BSPP	061.040			●		Ø 10.00 x Ø 14.00 x 1.00	0.13
220/612	1/4 BSPP	061.240	●	●[1]	●		Ø 13.20 x Ø 17.00 x 1.00	0.20
490/491/ 460/461/ 616/617/689	3/4 BSPP	061.640		●[2]	●		Ø 26.50 x Ø 32.00 x 1.00	0.50
405	1 1/4 BSPP	062.140			●		Ø 42.00 x Ø 50.00 x 1.00	1.20
405	2 BSPP	062.540			●		Ø 60.00 x Ø 70.00 x 2.00	3.92
226/468/652/ 684/679	Retaining nut 3/8	065.240	●		●	●	Ø 11.00 x Ø 15.00 x 1.00	0.14
656/657	Retaining nut 3/4	065.640			●		Ø 18.00 x Ø 24.00 x 1.00	0.50
PTFE sealing tape For connecting cylindrical female threads and tapered male threads BSPT		095.009.55.09.30.0					12 mm x 0.1 mm x 12 m	–

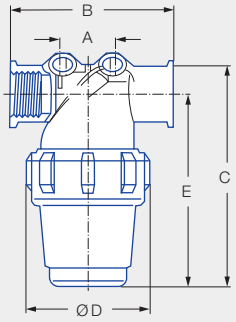
[1] Dimensions [mm] for mat. no. 71: 13.20 x 17.00 x 2.00.
[2] Dimensions [mm] for mat. no. 71: 26.50 x 32.00 x 2.50.

Ordering example:	Type 065.200	+	Material no. 16	=	Ordering no. 065.200.16

Strainers
Max. 12 bar

Standard strainer for industrial application

- For operating pressure levels up to 12 bar.
  With large filter surfaces
- Mesh size is colour coded:
  – 0.6 mm = red
  – 0.3 mm = blue
  – 0.2 mm = green
- Easy handling
- Robust version
- Slender design



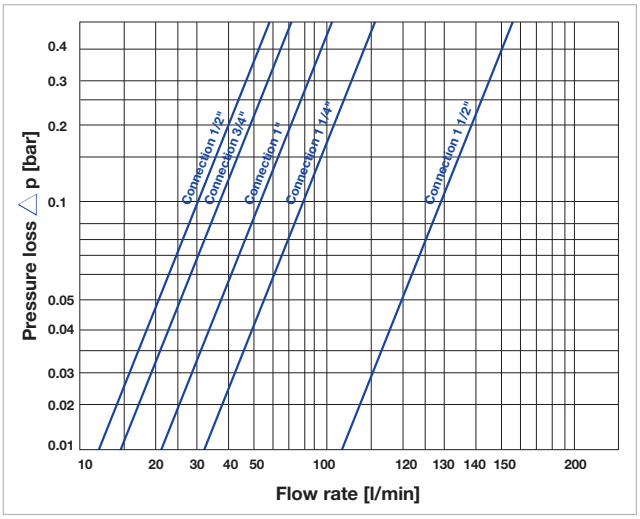
Type		Code BSPP	Dimensions [mm]					Weight [g]
			A	B	C	E	Ø D	
S.GA2.	**S.GI2.**	1/2	27.0	97.0	140.0	118.0	74.0	200.0
S.GA3.	**S.GI3.**	3/4	27.0	97.0	140.0	118.0	74.0	200.0
S.GA4.	**S.GI4.**	1	40.0	112.0	175.0	143.0	86.0	300.0
S.GA5.	**S.GI5.**	1 1/4	39.0	146.0	280.0	239.0	116.0	630.0
S.GA6.	**S.GI6.**	1 1/2	39.0	146.0	280.0	239.0	116.0	630.0

Pressure/Temperature ranges

Max. temperature [°C]	p_{max} [bar]
20	12
60	7

	Ordering no.			Standard strainer insert/Standard filter		Optional strainer inserts			
	Type	Size	Mat. no. 53 Polypro-pylene	Mesh size [mm]	Type (blue)	Mesh size [mm]	Type (red)	Mesh size [mm]	Type (green)
Male thread	**S.GA2.**	**012.**	●	0.3	S.000.012.00.26.03	0.6	S.000.012.00.26.06	0.2	S.000.012.00.26.02
	S.GA3.	**034.**	●	0.3	S.000.012.00.26.03	0.6	S.000.012.00.26.06	0.2	S.000.012.00.26.02
	S.GA4.	**100.**	●	0.3	S.000.100.00.26.03	0.6	S.000.100.00.26.06	0.2	S.000.100.00.26.02
	S.GA5.	**114.**	●	0.3	S.000.114.00.26.03	0.6	S.000.114.00.26.06	0.2	S.000.114.00.26.02
	S.GA6.	**112.**	●	0.3	S.000.114.00.26.03	0.6	S.000.114.00.26.06	0.2	S.000.114.00.26.02
Female thread	**S.GI2.**	**012.**	●	0.3	S.000.012.00.26.03	0.6	S.000.012.00.26.06	0.2	S.000.012.00.26.02
	S.GI3.	**034.**	●	0.3	S.000.012.00.26.03	0.6	S.000.012.00.26.06	0.2	S.000.012.00.26.02
	S.GI4.	**100.**	●	0.3	S.000.100.00.26.03	0.6	S.000.100.00.26.06	0.2	S.000.100.00.26.02
	S.GI5.	**114.**	●	0.3	S.000.114.00.26.03	0.6	S.000.114.00.26.06	0.2	S.000.114.00.26.02
	S.GI6.	**112.**	●	0.3	S.000.114.00.26.03	0.6	S.000.114.00.26.06	0.2	S.000.114.00.26.02

Notice: Standard strainer insert (blue) included in the scope of supply.



Correction factors for △ p

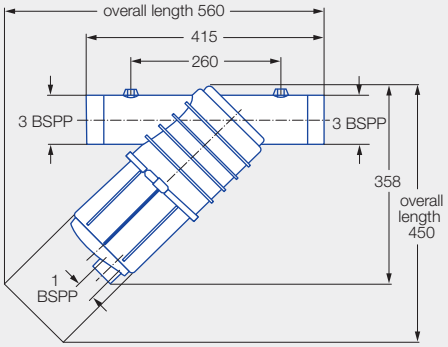
Viscosity [mPa·s]	Basket – mesh size [mm]		
	0.6	0.3	0.2
1.0 (water)	1.0	1.2	1.4
100.0	1.6	1.9	2.0
200.0	1.7	2.2	2.3

Ordering example:	Type	+	Size	+	Material no.	=	Ordering no.
	S.GA2.	+	012.	+	53	=	S.GA2.012.53

Strainers
Max. 8 bar

Strainer with high flow rate and low resistance

- Integrated flow deflector prevents clogging of the filter insert
- Dirt particles can be removed via an offset outlet port
- Prepared for the install of two pressure gauges



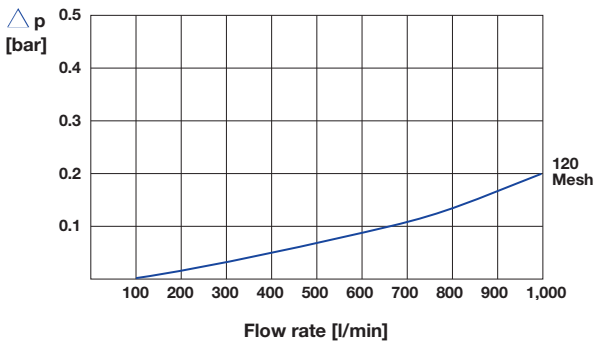
Strainer with screen

Ordering no.			Screen mesh size [µm/mesh]
Type	Size	Mat. no. 53 Polypropylene	
S.GA2.	300.	●	594/32
S.GA3.	300.	●	365/50
S.GA4.	300.	●	173/100
S.GA5.	300.	●	144/120

Screen

Ordering no.				Screen mesh size [µm/mesh]
Type	Size	Mat. no. 26 Stainless steel 304	Mat. no. 5A Polyester/ Stainless steel	
S.002.	300.00.	●		594/32
S.003.	300.00.	●		365/50
S.004.	300.00.	●		173/100
S.005.	300.00.		●	144/120

Pressure loss chart



Technical data	
Screening surface	860 cm²
Screening insert Ø	145 mm
Height of screening insert	320 mm
Inflow/Outflow port Ø	3"
Pressure gauge connection Ø	1/4 BSPP
Max. operating pressure	8 bar

Ordering example for strainer:

Ordering example:	Type	+	Size	+	Material no.	=	Ordering no.
	S.GA2.	+	300.	+	53	=	S.GA2.300.53

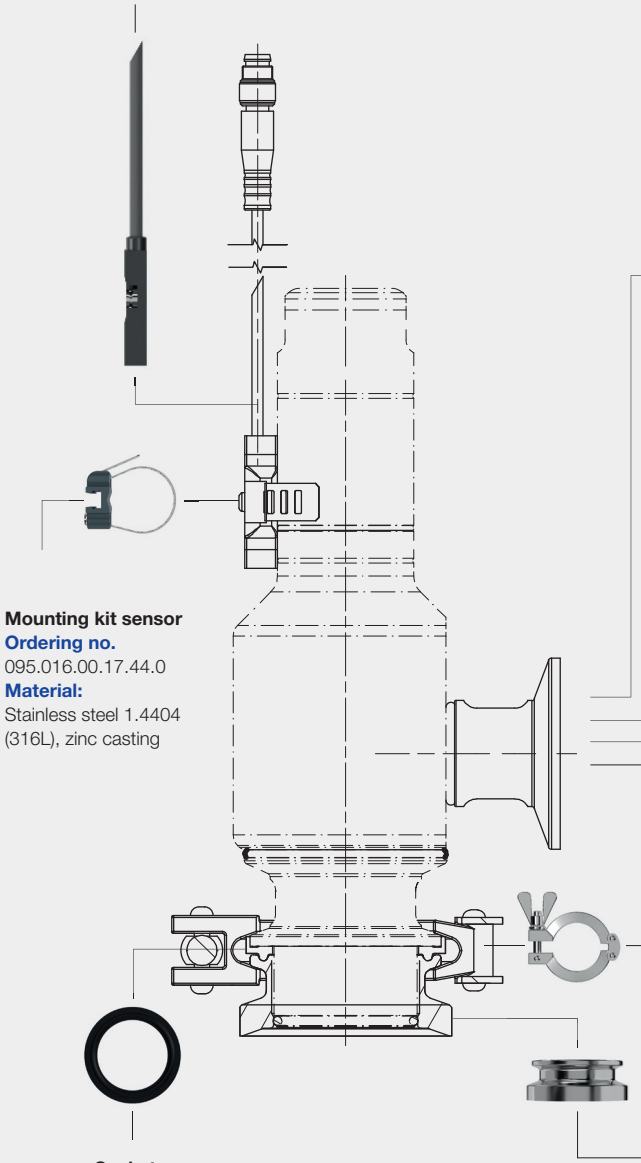
Ordering example for strainer insert:

Ordering example:	Type	+	Size	+	Material no.	=	Ordering no.
	S.002.	+	300.00.	+	26	=	S.002.300.00.26

Recommended accessories can be ordered separately.

Sensor Options
Two sensors can be used to detect both end positions (one mounting kit is required per sensor)

Sensor	Specifications	max. temperature in °C	Ordering no.
1	PNP or NPN, nO or nC, M8	85	095.009.00.18.67.0
2	ATEX, PNP, nO, M8	85	095.009.00.19.14.0
3	REED, open cable end	120	095.009.00.19.15.0



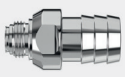
Mounting kit sensor
Ordering no.
095.016.00.17.44.0
Material:
Stainless steel 1.4404 (316L), zinc casting

Medium connection
Available medium connections, one adapter is required per PopUp Whirly Air.
Other connections are available on request.

Adapter
Ordering no. 05P.830.1Y.00.01.0
Material: Stainless steel 1.4404 (316L)
Tri-Clamp DIN 32676
Outer-Ø 50,5 mm

Adapter
Ordering no. 05P.830.1Y.00.02.0
Material: Stainless steel 1.4404 (316L)
Tri-Clamp DIN 32676
Outer-Ø 64 mm

Adapter
Ordering no. 05P.830.1Y.00.03.0
Material: Stainless steel 1.4404 (316L)
Female thread
3/4 BSPP



Adapter
Ordering no. 05P.830.1Y.00.04.0
Material: Stainless steel 1.4404 (316L)
Hose connector for Inner-Ø 25 mm

Hinge Bolt Clamp

Type	Material	Ordering no.
5P8	Stainless steel 1.4408	095.016.1Y.16.52.0
5P9	Stainless steel 1.4408	095.016.1Y.16.53.0

Gasket

Type	Material	Ordering no.
5P8	FKM	095.015.79.12.24.0
	EPDM	095.015.E9.12.24.0
5P9	FKM	095.015.79.12.25.0
	EPDM	095.015.E9.12.25.0

Welding Flange

Type	Material	Ordering no.
5P8	Stainless steel 1.4404 (316L)	050.020.1Y.01.00.0
5P9	Stainless steel 1.4404 (316L)	050.020.1Y.01.01.0

Weld flanges adapted to pipe curve are available on request.