


TIGZONE®
TORCHES

TIGZONE SERIES

WATER COOLED

TIG-Torches

The TIGZONE Water-cooled series delivers 180 to 350 amps of power to torches. Thanks to its sophisticated cooling technology, it enables high amperages - and that with TIG torches for light welding work up to heavy-duty applications in continuous operation.

- Torches are made with the highest quality components to maximize the lifetime and performance
- Available for all standard welding machines
- 3 different handle and switch options
- Super-Flex® cables and Super-Soft® leather remains flexible and ease to handle with a significant cable lifetime
- CE EN 60 974-7



Torch (model)	A DC (EN 60974-7)	A AC (EN 60974-7)	WØ (in mm)	Page
AQ-20	250	180	0.5 – 3.2	5
AQ-18	350	250	0.5 – 4.0	11
AQ-24WF	180	115	1.0 – 3.2	18



HANDLE SERIES

TIGZONE HD

Are you working on the construction site or in an environment where rough conditions prevail? Then the TIGZONE HD with its robust design, high frequency characteristics and metal switch blades for more finger control is the right choice. The handle is equipped with a microswitch with gold contacts and is completely insulated thanks to the switch sleeve. The switch module is available as a flat, curved single module or as a red/green double print, depending on your needs. The TIGZONE HD is available in three sizes: Small, Medium, and Large.



Trigger / Switches Parts			Trigger / Switches Complete	
SW-1-3	SW-1-1	SW-1-2	SW-1	SW-4
SW-1-4			SW-1F	SL-3
				Switch Lever for SW-1F

	Compatible Torches	Adapter	Handle	Switch Boot
TIG	AE9, AE9SN, AE17, AE17SN, AE150		H-100	BS-1
	CK9, CK17, CK24, CKPF130, MR70, FL130, FL150		CK-HS	
TIG	AQ20, AE24, AQ24, AQ225, AQ225SN, AQ250SN	HI-100G	H-100G	BM-1
	CK20, CK25, CK24W, MR140, FL230, FL250		CK-H23	
	CK230, TL26, TL18			
TIG	AQ18, AQ18SC, AE26, AE200, AE300		H-200	BL-1
	CK18, CK26, CK510		CK-HL	

HANDLE SERIES

TIGZONE Ergo

The TIGZONE Ergo not only impresses with its high frequency properties but is also suitable for both right-handed and left-handed users thanks to its ergonomic design. The switch module is available as a single-pressure or double-pressure version. The handle is particularly easy to repair, as no screws or tools are required, and is available in size Small and Large.



Trigger / Switches Parts

TZ-RB-1



TZ-BB-3



TZ-RB-2



TZ-BB-4



Compatible Torches

AE9, AE9SN, AE17, AE17SN, AE150
AQ20, AE24, AQ24, AQ225, AQ225SN, AQ250SN

CK230, TL26, TL18
CK9, CK17, CK24, CKPF130, MR70, FL130, FL150
CK20, CK25, CK24W, MR140, FL230, FL250

Handle

TZ-S-T



TZ-L-T



HANDLE SERIES

TIGZONE Butterfly

The TIGZONE Butterfly handle has a lightweight design and a ball-and-socket joint that adapts ergonomically to any hand. The special feature of the Butterfly is that it has an up/down function with four buttons. This allows users to send a digital signal to the machine to adjust the power up and down. The switch module of the TIGZONE Butterfly is also available as a single or double switch version.



Trigger / Switches Parts			Handle sets Complete with Trigger	
TZ-BC-1	TZ-BC-2	TZ-BB-8	TZ-BF-1	
			↓	
		TZ-BB-9	TZ-BF-2	
			↓ ↓	
	TZ-BC-3	TZ-BB-5	TZ-BFUP-T	
			↕ ↕	

Compatible Torches		Handle	Cable Support
TIG	AE9, 9SN, AE17, AE17SN, AE150, AQ20, AE24, AQ24, AQ225, AQ225SN, AQ250SN	TZ-BF-L/R	TZ-BF-CS
	CK9, CK17, CK24, CKPF130, MR70, MR140, CK20, CK25, CK24W, CK230, TL26, TL18, FL130, FL150, FL230, FL250		
		TZ-PS-1	
		1 x	Screws You need 4 (four) screws to assemble one handle.

WATER COOLED SERIES

AQ-20

TIGZONE®

TORCHES



100
%DC



WØ
0,5
–
3,2
mm

250
A DC

180
A AC

TIGZONE AQ-20 – watercooled TIG-Torch

The Torch

Lightweight and compact torch design and still it provide consistent performance and long-term service with around-the-head water cooling

The End-Connector

Available for all standard welding machines

The Handle

3 Different handle and switch options

The Cable

Super-Flex® cables and Super-Soft® leather remains flexible and ease to handle with a significant cable lifetime

DIN Norm

CE EN 60 974-7

TIGZONE AQ-20 – Torch / Back End Consumables



Torch Front Group

1	Torch Body incl. insulator (10)	
.1	AQ-20	AQ20
.2	AQ-20F 70mm	AQ20F
.3	AQ-20F115 115mm	AQ20F115

2	Backcap	
.1	short	41V33
.2	medium	41V35
.3	long	41V24

Cable Group

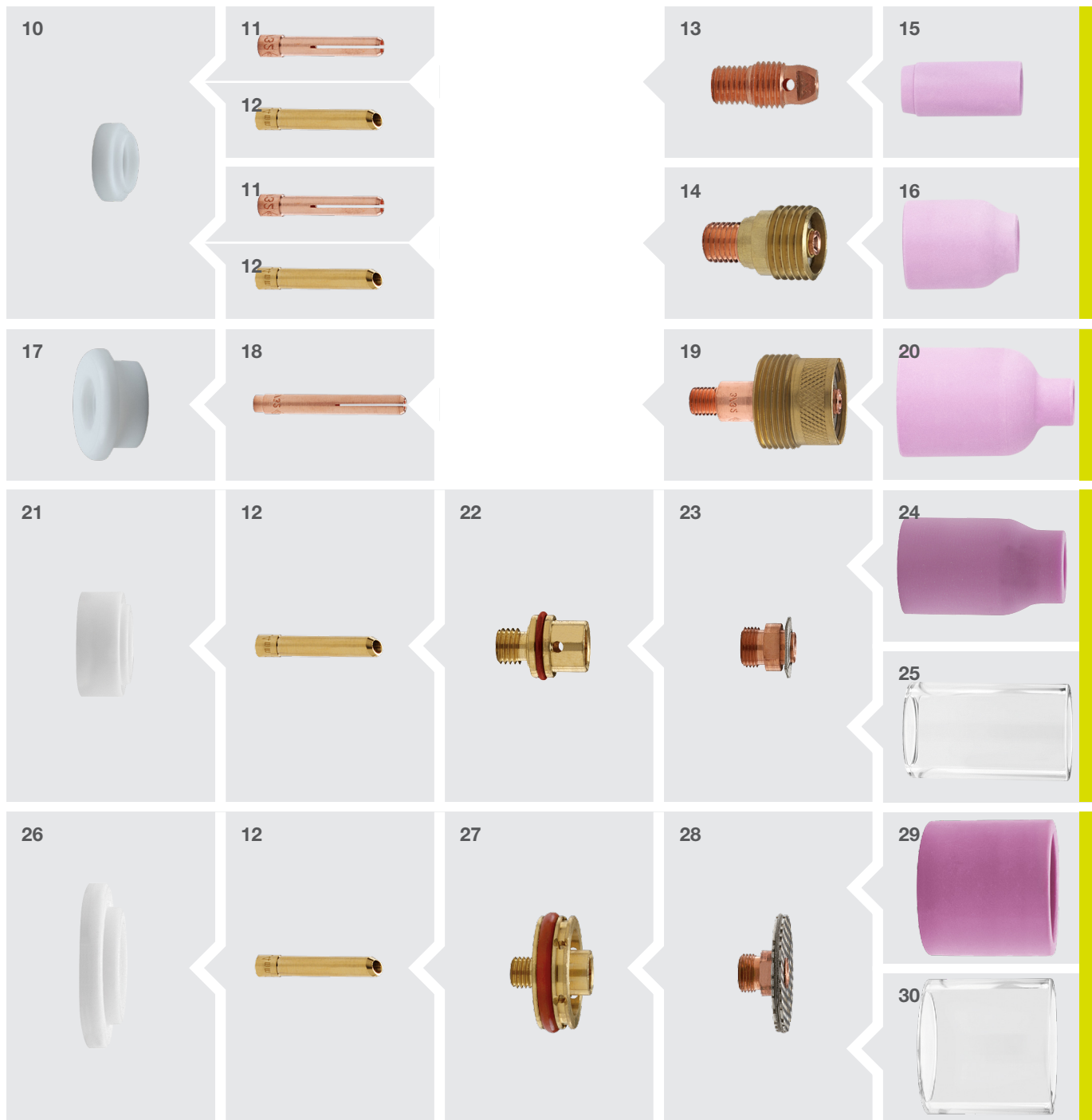
4	Cable cover leather	TZ-1022R-TIG
5	Cable cover 25x1.5mm	RS-25
6	Gas Hose	
	4m	45V09R-*
	4m SF	45V09R-SF-*
	8m	45V10R-*
	8m SF	45V10R-SF-*
7	Water Hose	
	4m	45V07R-*
	4m SF	45V07R-SF-*
	8m	45V08R-*
	8m SF	45V08R-SF-*
8	Power Cable	
	4m	G45V03-*
	4m SF	G45V03-SF-*
	8m	G45V04-*
	8m SF	G45V04-SF-*
9	Control	
	MOQ 100m	
	Standard (3x0.5mm)	LIYY-3x0,5
	U/D Torches (6x0.25mm)	LIYCY-6x0,25

* Please specify machine connections e.g. 1/4, 3/8 etc.

i Handles

More information regarding our **Handles** Group on page 2.

TIGZONE AQ-20 – Front End Consumables Overview

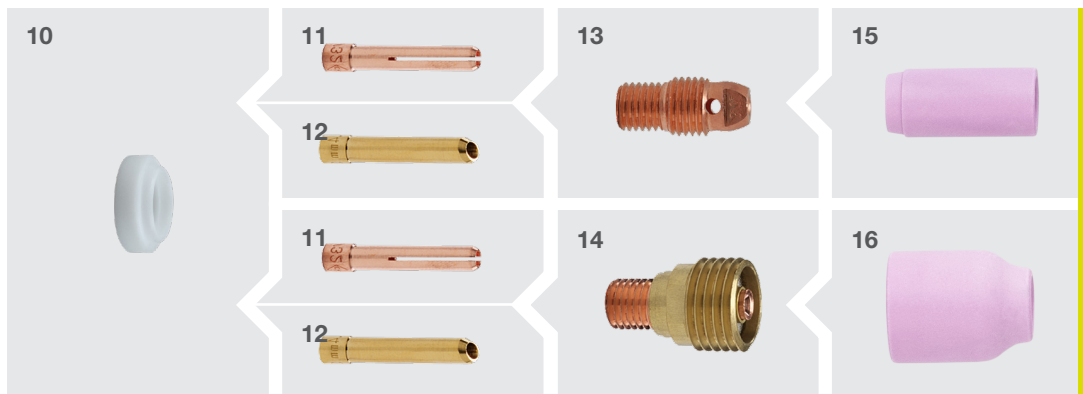


TIGZONE AQ-20 – Front End Consumables

Parts

These parts come in different **ma-terials, variants** and **sizes**.

For additional information see below.



Size	10 Insulator (std.)	11 Collet	12 Collet Wedge	13 Collet Body	14 Gas Lens
Ø .020" (0.5 mm)	598882	13N20	-	13N25	45V41
Ø .040" (1.0 mm)		13N21	2C040GS	13N26	45V42
Ø 1/16" (1.6 mm)		13N22	2C116GS	13N27	45V43
Ø 3/32" (2.4 mm)		13N23	2C332GS	13N28	45V44
Ø 1/8" (3.2 mm)		13N24	2C418GS	13N29	45V45

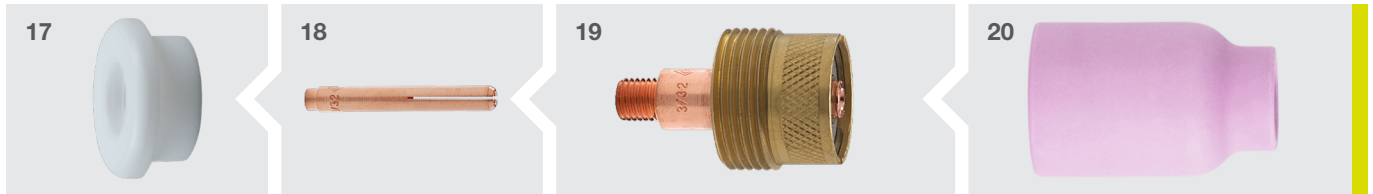
Cup Sizes

Have a look at the different sizes of the same cup.



Size	15 Cup (29,35 mm)	15 Super Cup (Sil.Nitride)	15 Cup L (48 mm)	15 Cup XL (63 mm)	16 Cup (25,40 mm)	16 Super Cup (Sil.Nitride)	16 Cup L (35 mm)	16 Cup XL (72 mm)
#3 Ø 4.75 mm	-	-	A796F70	A796F74	-	-	-	-
#4 Ø 6.35 mm	13N08	13N08SC	A796F71	A796F75	53N58	53N58SC	53N58L	53N58XL
#5 Ø 7.93 mm	13N09	13N09SC	A796F72	A796F76	53N59	53N59SC	53N59L	53N59XL
#6 Ø 9.52 mm	13N10	13N10SC	A796F73	A796F77	53N60	53N60SC	53N60L	53N60XL
#7 Ø 11.11 mm	13N11	13N11SC	-	-	53N61	53N61SC	53N61L	53N61XL
#8 Ø 12.70 mm	13N12	13N12SC	-	-	53N61S	53N61SSC	53N61SL	-
#10 Ø 15.87 mm	13N13	13N13SC	-	-	53N61S-10	-	-	-

TIGZONE AQ-20 – Front End Consumables



Size Ø .020" (0.5 mm) Ø .040" (1.0 mm) Ø 1/16" (1.6 mm) Ø 3/32" (2.4 mm) Ø 1/8" (3.2 mm)	17 Insulator for large Gaslens 54N63-20	18 Collet long 13N20L 13N21L 13N22L 13N23L 13N24L	19 Gas Lens L 45V0204S 45V0204S 45V116S 45V64S 995795S

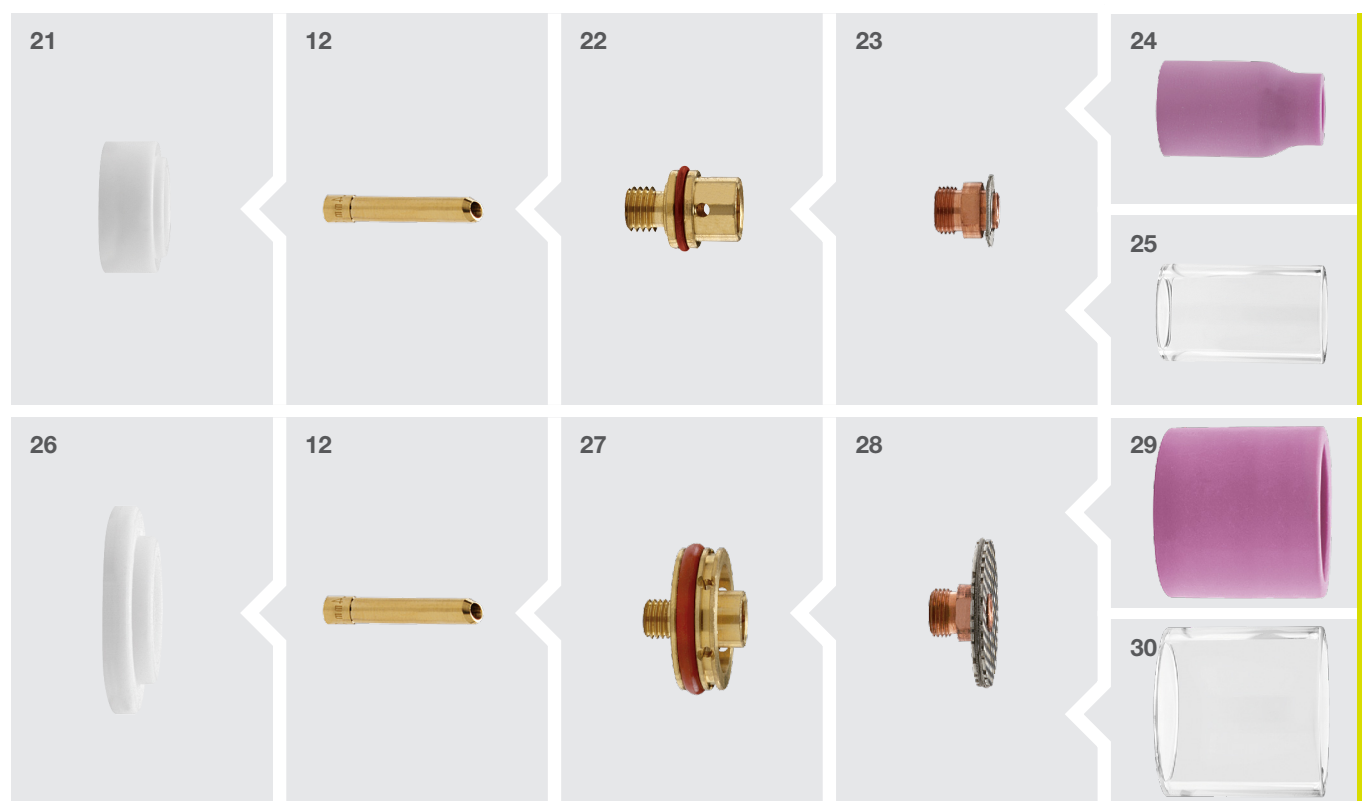
Parts

These parts come in different **materials, variants** and **sizes**.

For additional information see below.

Size #3 Ø 4.75 mm #4 Ø 6.35 mm #5 Ø 7.93 mm #6 Ø 9.52 mm #7 Ø 11.11 mm #8 Ø 12.70 mm #10 Ø 15.87 mm #12 Ø 19.05 mm	20 Cup LD (47,62 mm)	20 Super Cup LD (Sil.Nitride)	20 Cup LD L (70 mm)	20 Cup LD XL (84 mm)	20 Cup LD XXL (122 mm)
	-	-	-	-	-
	-	-	-	-	-
	-	-	-	-	-
	57N75	57N75SC	57N75L	57N75XL	57N75XXL
	-	-	-	-	-
	57N74	57N74SC	57N74L	57N74XL	57N74XXL
	53N88	53N88SC	53N88L	53N88XL	53N88XXL
	53N87	53N87SC	53N87L	53N87XL	53N87XXL

TIGZONE AQ-20 – Front End Consumables



 21 Insulator Gas Saver Heatshield 2HSGS-1		 12 Collet Wedge	 22 Collet Body Gas Saver	 23 Tungsten Adapter with Screens	 27 Collet Body Gas Saver LD	 28 Tungsten Adapter with Screens
 26 Insulator Gas Saver LD 2HSGSLD	Size Ø .020" (0.5 mm) Ø .040" (1.0 mm) Ø 1/16" (1.6 mm) Ø 3/32" (2.4 mm) Ø 1/8" (3.2 mm)	- 2C040GS 2C116GS 2C332GS 2C418GS	- 2CBGS-1	- TAS040GS TAS116GS TAS332GS TAS418GS	- 2CBGSLD	- TAS040GSLD TAS116GSLD TAS332GSLD TAS418GSLD

	 30 Cup Pyrex LD (32,5 mm)	 29 Cup LD (32,5 mm)	 25 Cup Pyrex (32,5 mm)	 24 Cup (32,50 mm)
Size #3 Ø 4.75 mm #4 Ø 6.35 mm #5 Ø 7.93 mm #6 Ø 9.52 mm #7 Ø 11.11 mm #8 Ø 12.70 mm #10 Ø 15.87 mm #18 Ø 28.50 mm	- - - - - - 2P18GSLD	- - - - - - 2A18GSLD	- - - - D2P8GS - - -	- 2A4GS 2A5GS 2A6GS 2A7GS 2A8GS - - -

WATER COOLED SERIES

AQ-18**TIGZONE®**
TORCHES**100**
%DC**WØ**
0,5
–
4,0
mm**350**
A DC

250
A AC**TIGZONE AQ-18 – watercooled TIG-Torch****The Torch**

Rugged designed torch for high-amperage and continuous hand-held welding

The End-Connector

Available for all standard welding machines

The Handle

Choose between the ERGO or HD handle series

The Cable

Super-Flex® cables and Super-Soft® leather remains flexible and ease to handle with a significant cable lifetime

DIN Norm

CE EN 60 974-7

TIGZONE AQ-18 – Torch / Back End Consumables



Torch Front Group

1	Torch Body incl. insulator (15)	
.1	AQ-18	AQ18
.2	AQ-18F	AQ18F
.3	AQ-18V	AQ18V
.a	VS-1	VS1

2	Backcap	
.1	short	57Y04
.2	medium	57Y02M
.3	long	57Y02

Cable Group

4	Cable cover	
	leather	TZ-1028R-TIG
5	Cable cover	
	25x1.5mm	RS-25
6	Gas Hose	
	4m	40V75R-*
	4m SF	40V75R-SF-*
	8m	41V30R-*
	8m SF	41V30R-SF-*
7	Water Hose	
	4m	40V74R-*
	4m SF	40V74R-SF-*
	8m	41V32R-*
	8m SF	41V32R-SF-*
8	Power Cable	
	4m	40V64R-*
	4m SF	40V64R-SF-*
	8m	41V29R-*
	8m SF	41V29R-SF-*
9	Control	MOQ 100m
	Standard (3x0.5mm)	LIYY-3x0,5
	U/D Torches (6x0.25mm)	LIYCY-6x0,25

* Please specify machine connections e.g. 1/4, 3/8 etc.

i Handle w/o switch

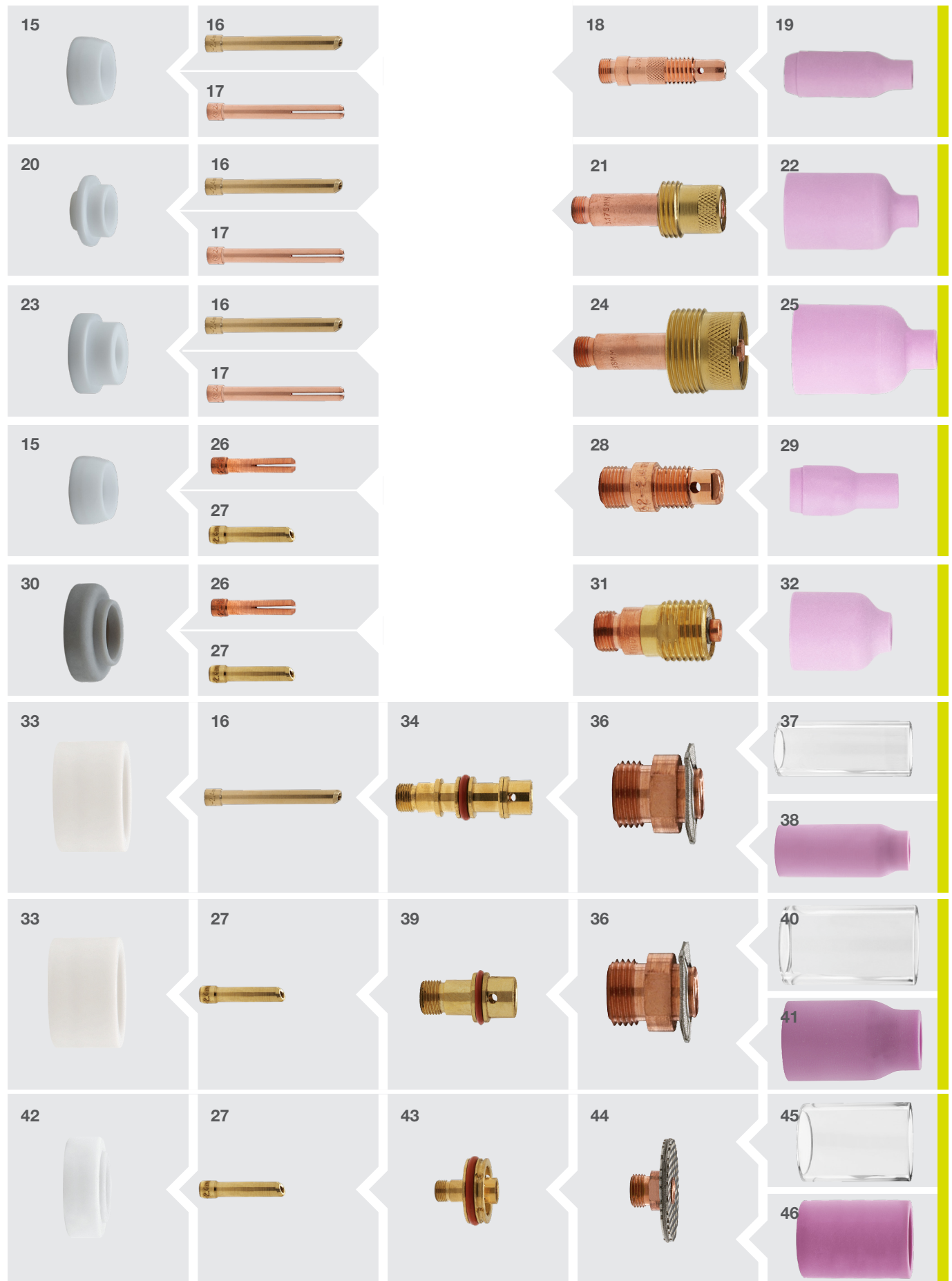
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H-200



i Handles

More information regarding our
Handles Group on page 2.

TIGZONE AQ-18 – Front End Consumables Overview



TIGZONE AQ-18 – Front End Consumables

						
Size	16 Collet Wedge	17 Collet	18 Collet Body	21 Gas Lens	24 Gas Lens	15 Insulator Standard 18CG
Ø .020" (0.5 mm)	-	10N21	10N29	45V29	45V0204	
Ø .040 " (1.0 mm)	3C040GS	10N22	10N30	45V24		
Ø 1/16" (1.6 mm)	3C116GS	10N23	10N31	45V25	45V116	20 Insulator Gas Lens 54N01
Ø 3/32" (2.4 mm)	3C332GS	10N24	10N32	45V26	45V64	
Ø 1/8" (3.2 mm)	3C418GS	10N25	10N28	45V27	995795	
Ø 5/32" (4.0 mm)	3C532GS	54N20	406488	45V28	45V63	23 Insulator LD Gas Lens 54N63

						
Size	19 Cup (46,83 mm)	19 Super Cup (Sil.Nitride)	19 Cup L (76 mm)	22 Cup (41,27 mm)	22 Super Cup (Sil.Nitride)	22 Cup L (76 mm)
#3 Ø 4.75 mm	-	-	-	-	-	-
#4 Ø 6.35 mm	10N50	10N50SC	10N50L	54N18	54N18SC	54N18L
#5 Ø 7.93 mm	10N49	10N49SC	10N49L	54N17	54N17SC	54N17L
#6 Ø 9.52 mm	10N48	10N48SC	10N48L	54N16	54N16SC	54N16L
#7 Ø 11.11 mm	10N47	10N47SC	10N47L	54N15	54N15SC	54N15L
#8 Ø 12.70 mm	10N46	10N46SC	-	54N14	54N14SC	54N14L
#10 Ø 15.87 mm	10N45	10N45SC	-	-	-	-
#11 Ø 17.50 mm	-	-	-	54N19L	-	-
#12 Ø 19.05 mm	10N44	10N44SC	-	-	-	-

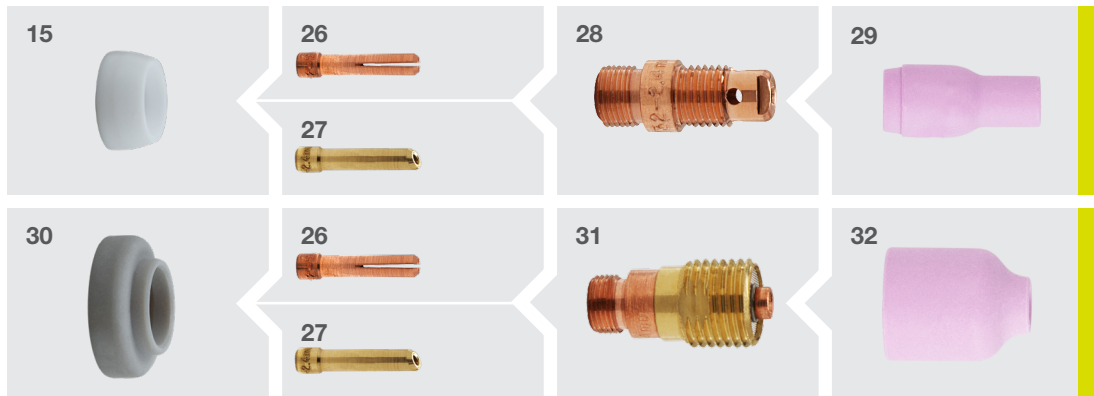
					
Size	25 Cup (47,62 mm)	25 Super Cup (Sil.Nitride)	25 Cup L (70 mm)	25 Cup XL (84 mm)	25 Cup XXL (122 mm)
#3 Ø 4.75 mm	-	-	-	-	-
#4 Ø 6.35 mm	-	-	-	-	-
#5 Ø 7.93 mm	-	-	-	-	-
#6 Ø 9.52 mm	57N75	57N75SC	57N75L	57N75XL	57N75XXL
#7 Ø 11.11 mm	-	-	-	-	-
#8 Ø 12.70 mm	57N74	57N74SC	57N74L	57N74XL	57N74XXL
#10 Ø 15.87 mm	53N88	53N88SC	53N88L	53N88XL	53N88XXL
#12 Ø 19.05 mm	53N87	53N87SC	53N87L	53N87XL	53N87XXL

TIGZONE AQ-18 – Front End Consumables

Parts

These parts come in different **ma-terials, variants** and **sizes**.

For additional information see below.

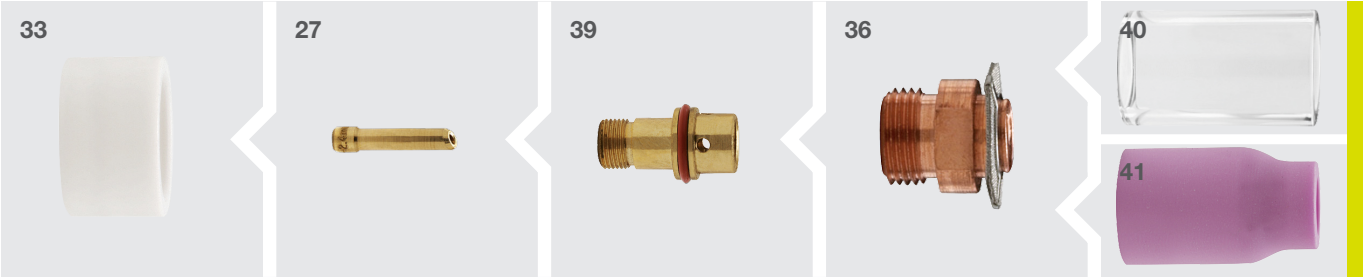


Size									
									
15 Insulator Standard		30 Insulator Stubby Gas Lens		26 Stubby Collet		27 Collet Wedge		28 Short Collet Body	
Ø .020" (0.5 mm)				10N21S		-		4CB20	
Ø .040" (1.0 mm)				10N22S		4C040GS		4CB40	
Ø 1/16" (1.6 mm)		18CG		10N23S		4C116GS		4CB116	
Ø 3/32" (2.4 mm)		18CGG		10N24S		4C332GS		4CB332	
Ø 1/8" (3.2 mm)				10N25S		4C418GS		4CB418	
Ø 5/32" (4.0 mm)				4C532		4C532GS		4CB532	
								4GL20	
								4GL40	
								4GL116	
								4GL332	
								4GL418	
								4GL532	
Size									
									
29 Cup (29,35 mm)		29 Super Cup (Sil.Nitride)		29 Cup L (48 mm)		29 Cup XL (63 mm)		32 Cup (25,40 mm)	
									
								32 Cup L (35 mm)	
									
								32 Cup XL (72 mm)	
#3	Ø 4.75 mm	-	-	A796F70	A796F74	-	-	-	-
#4	Ø 6.35 mm	13N08	13N08SC	A796F71	A796F75	53N58	53N58SC	53N58L	53N58XL
#5	Ø 7.93 mm	13N09	13N09SC	A796F72	A796F76	53N59	53N59SC	53N59L	53N59XL
#6	Ø 9.52 mm	13N10	13N10SC	A796F73	A796F77	53N60	53N60SC	53N60L	53N60XL
#7	Ø 11.11 mm	13N11	13N11SC	-	-	53N61	53N61SC	53N61L	53N61XL
#8	Ø 12.70 mm	13N12	13N12SC	-	-	53N61S	53N61SSC	53N61SL	-
#10	Ø 15.87 mm	13N13	13N13SC	-	-	53N61S-10	-	-	-
#12	Ø 19.05 mm	-	-	-	-	-	-	-	-

TIGZONE AQ-18 – Front End Consumables



							
Size							
Ø .020" (0.5 mm)		-	-	-	#3 Ø 4.75 mm	-	-
Ø .040" (1.0 mm)					#4 Ø 6.35 mm	-	3A4GS
Ø 1/16" (1.6 mm)					#5 Ø 7.93 mm	-	3A5GS
Ø 3/32" (2.4 mm)					#6 Ø 9.52 mm	-	3A6GS
Ø 1/8" (3.2 mm)	3HSGS	3C040GS 3C116GS 3C332GS 3C418GS 3C532GS	3CBGS	TAS040GS TAS116GS TAS332GS TAS418GS TAS532GS	#7 Ø 11.11 mm	-	3A7GS
Ø 5/32" (4.0 mm)					#8 Ø 12.70 mm	D3P8GS	3A8GS
					#10 Ø 15.87 mm	-	-
					#12 Ø 19.05 mm	-	-



							
Size							
Ø .020" (0.5 mm)		-	-	-	#3 Ø 4.75 mm	-	-
Ø .040" (1.0 mm)					#4 Ø 6.35 mm	-	2A4GS
Ø 1/16" (1.6 mm)					#5 Ø 7.93 mm	-	2A5GS
Ø 3/32" (2.4 mm)					#6 Ø 9.52 mm	-	2A6GS
Ø 1/8" (3.2 mm)	3HSGS	4C040GS 4C116GS 4C332GS 4C418GS 4C532GS	4CBGS	TAS040GS TAS116GS TAS332GS TAS418GS TAS532GS	#7 Ø 11.11 mm	-	2A7GS
Ø 5/32" (4.0 mm)					#8 Ø 12.70 mm	D2P8GS	2A8GS
					#10 Ø 15.87 mm	-	-
					#12 Ø 19.05 mm	-	-

TIGZONE AQ-18 – Front End Consumables



				
	27 Insulator Gas Saver LD	27 Collet Wedge	43 Collet Body Gas Saver LD	44 Tungsten Adapter with Screens
Size				
Ø .020" (0.5 mm)	-	-	-	-
Ø .040" (1.0 mm)		4C040GS		TAS040GSLD
Ø 1/16" (1.6 mm)		4C116GS		TAS116GSLD
Ø 3/32" (2.4 mm)	4HSGSLD	4C332GS	4CBGSLD	TAS332GSLD
Ø 1/8" (3.2 mm)		4C418GS		TAS418GSLD
Ø 5/32" (4.0 mm)		4C532GS		TAS532GSLD

		
	45 Cup Pyrex LD (47,62 mm)	46 Cup LD GasSaver (47,62 mm)
Size		
#3	Ø 4.75 mm	-
#4	Ø 6.35 mm	-
#5	Ø 7.93 mm	-
#6	Ø 9.52 mm	-
#7	Ø 11.11 mm	-
#8	Ø 12.70 mm	-
#10	Ø 15.87 mm	-
#12	Ø 19.05 mm	-
#18	Ø 28.50 mm	2A12GSLD
	4P18GSLD	4A18GSLD

WATER COOLED SERIES

AQ-24WF

TIGZONE®
TORCHES



TIGZONE AQ-24WF – watercooled TIG-Torch

The Torch

Innovative torch profile, especially in limited-access areas.
75mm and 120mm flex-neck option

The End-Connector

Available for all standard welding machines

The Handle

3 Different handle and switch options

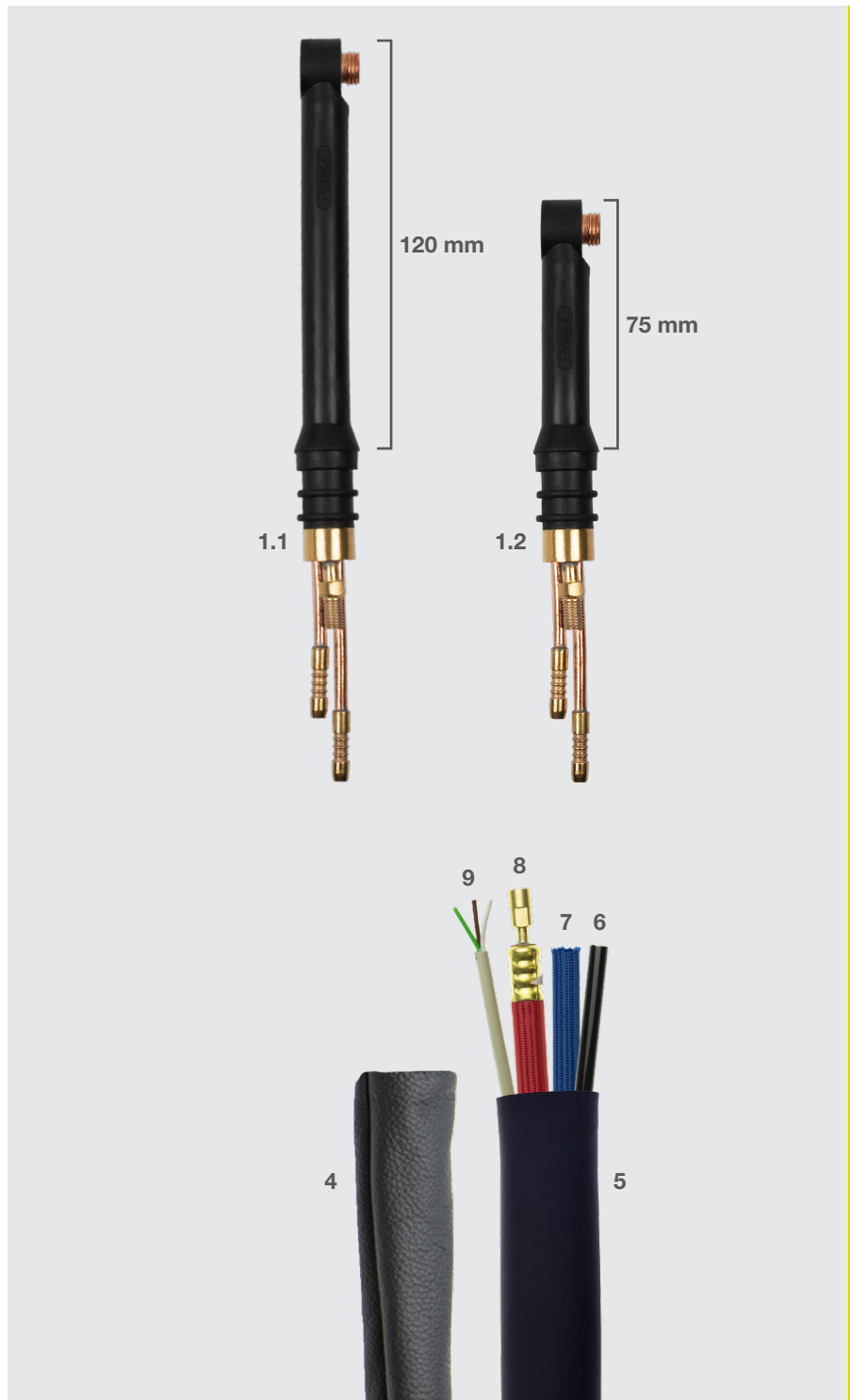
The Cable

Super-Flex® cables and Super-Soft® leather remains
flexible and ease to handle with a significant cable lifetime

DIN Norm

CE EN 60 974-7

TIGZONE AQ-24WF – Torch / Back End Consumables



Torch Front Group

1	Torch Body incl. insulator (10)	
.1	AQ24 WFL-A 120mm	AQ24WFLA
.2	AQ24 WFS-A 75mm	AQ24WFSa

Cable Group

4	Cable cover leather	TZ-1022R-TIG
5	Cable cover 25x1.5mm	RS-25
6	Gas Hose	
	4m	45V09R-*
	4m SF	45V09R-SF-*
	8m	45V10R-*
	8m SF	45V10R-SF-*
7	Water Hose	
	4m	45V07R-*
	4m SF	45V07R-SF-*
	8m	45V08R-*
	8m SF	45V08R-SF-*
8	Power Cable	
	4m	G45V03-*
	4m SF	G45V03-SF-*
	8m	G45V04-*
	8m SF	G45V04-SF-*
9	Control	MOQ 100m
	Standard (3x0.5mm)	LIYY-3x0,5
	U/D Torches (6x0.25mm)	LIYCY-6x0,25

* Please specify machine connections e.g. **1/4, 3/8** etc.

i Handles

More information regarding our **Handles** Group on page 2.

Size	10 Insulator	11 Collet	12 Gas Lens	13 Cup #6 Ø 9.52 mm
Ø .020" (0.5 mm)	-	-	-	-
Ø .040" (1.0 mm)	-	13N21JA	45V42MS	-
Ø 1/16" (1.6 mm)	-	13N22JA	45V43MS	-
Ø 3/32" (2.4 mm)	598882M	13N23JA	45V44MS	53N60ES
Ø 1/8" (3.2 mm)	-	13N24JA	45V45MS	-

Notes

