

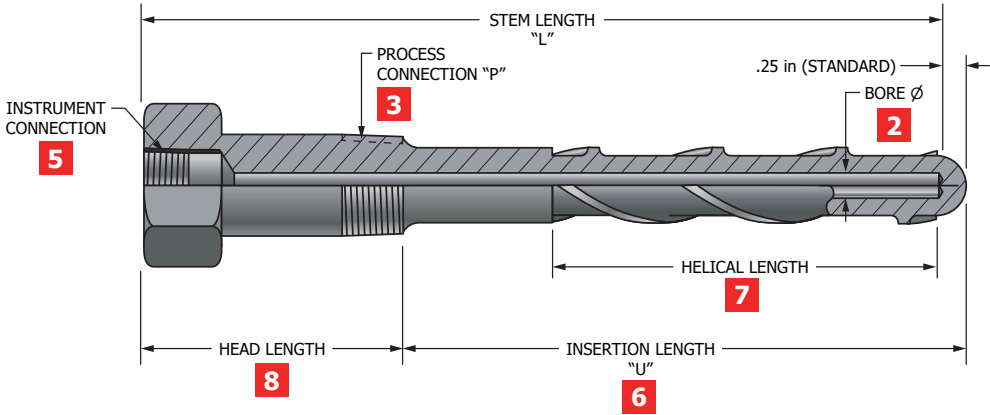
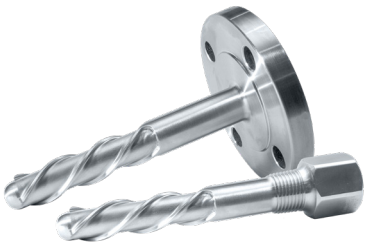
TW04

THREADED HELICAL THERMOWELL

As a pioneer and global leader in manufacturing thermowells, we ensure the highest quality and precision in every instrumentation piece we manufacture. Whether they are custom-made for highly specialized measurements or they are standard configuration, each and every thermowell is built to meet or exceed accepted standards.

Our helical thermowells features VE Technology, which will optimize the performance and durability in high-pressure flow applications.

Designed to withstand high velocity flow applications, where standard thermowells would often fail.



Please note: Various configurations may not be available, Mac-Weld will notify you if you have selected a incompatible part combination.

TW04	A	AB	L2	AA	04500	02500	01750	0787	0787	I
1	2	3	4	5	6	7	8	9	10	11

1	Thermowell Style	
	Code	Description
	TW04	Threaded Helical

2	Bore Size	
	Code	Description
	A	0.260
	B	0.385
	C	0.515
	D	0.203
	E	0.375
	F	0.390
	G	0.343
	M	0.406
	N	0.280
	O	0.302
	P	0.315
	R	0.276
	U	0.394
	V	0.354
	X	0.437
	K	0.703

Custom sizes, connections and materials may not be listed, contact Mac-Weld today to find out more.

3	Process Connection	
	Code	Description
	AB	3/4" NPT
	AC	1" NPT
	AD	1-1/4" NPT
	AE	1-1/2" NPT
	AH	3/4" BSPP
	AJ	3/4" BSPT
	AO	M27 x 2.0
	AY	1" - 14 UNF

4	Material	
	Code	Description
	L2	316/316L
	H2	304/304L
	H3	304H
	K2	310/310H
	L3	316H
	J1	317
	J3	317L
	M2	321/H
	M3	RA330
	N2	347/H
	N3	410
	N4	446
	N5	HR160
	S3	904L
	S4	AL-6XN
	S2	Alloy 20
	S1	Alloy 200
	R1	Alloy 400
	P1	Alloy 600
	P3	Alloy 601
	P2	Alloy 625
	Q3	Alloy 800/H/HT
	Q1	Alloy 825
	U2	Alloy B2
	U3	Alloy B3
	U4	Alloy C-22
	U1	Alloy C-276

4	Material (Continued)	
	Code	Description
	R2	Alloy K500
	U5	Alloy X
	C1	Aluminum 6061
	A1	Brass
	E4	Carbon Steel 1018
	E3	Carbon Steel 12L14
	E1	Carbon Steel ASTM A105
	G1	Chrome-M-Moly F22
	F1	Chrome-Moly-F11
	F6	Chrome-Moly-F5
	F7	Chrome-Moly-F9
	F8	Chrome-Moly-F91
	Y2	CPVC
	F2	Duplex F51/2205
	E2	LF2
	B1	Naval Brass
	Y1	PVC
	F4	Stainless F44/254 SMO
	F3	Super Duplex F53/2507
	F5	Super Duplex F55
	W1	Teflon
	T1	Tit Gr2
	T2	Alloy 825
	T3	Tit Gr7
	Z1	Zirc 702

5	Instrument Connection	
	Code	Description
	AA	1/2" NPT
	AB	3/4" NPT
	AC	1" NPT
	AD	1-1/4" NPT
	AE	1-1/2" NPT
	AF	1/2" NPSM
	AS	1/2" NPT TO CSA
	AZ	1/2" ANPT
	AR	1/4" NPT
	AT	1/8" NPT
	AG	1/2" BSPP
	AH	3/4" BSPP
	AI	1/2" BSPT
	AJ	3/4" BSPT
	AK	M14 x 1.5
	AL	M18 x 1.5
	AM	M20 x 1.5
	AN	M24 x 1.5
	AO	M27 x 2.0
	AP	1/4" - 20 UNF
	AQ	3/8" - 24 UNF
	AU	1/2" - 20 UNF
	AV	5/8" - 18 UNF
	AW	3/4" - 16 UNF
	AX	7/8" - 14 UNF
	AY	1" - 14 UNF
	AZ	3/8" NPT
	BA	3/4" Pipe (1.05" Dia.)
	BB	1" Pipe (1.315" Dia.)
	BC	1-1/4" OD
	BD	1-1/2" OD
	BE	1-3/4" OD
	BF	1-1/4" Pipe (1.660" Dia.)
	BG	1-1/2" Pipe (1.900" Dia.)
	BH	1/2" Pipe (0.840" Dia.)

6	Insertion Length	
	Code	Description
	xxxxx	Imperial: 6.500" = 06500 Metric: 165.1 mm = 01651
	*U length =>100,000" or 10,000.0mm see sales person for custom part number	

7	Helical Length	
	Code	Description
	xxxxx	Imperial: 3.25" = 02250 Metric: 82.6 mm = 00826

8	Head Length	
	Code	Description
	xxxxx	Imperial: 2.25" = 02250 Metric: 57.2 mm = 00572

9	Root Diameter	
	Code	Description
	xxxx	Imperial: 0.787" = 0787 Metric: 20.0 mm = 0200
	xxxx	Imperial: 0.984" = 0984 Metric: 25.0 mm = 0250

10	Tip Diameter	
	Code	Description
	xxxx	Imperial: 0.787" = 0787 Metric: 20.0 mm = 0200
	xxxx	Imperial: 0.984" = 0984 Metric: 25.0 mm = 0250

11	Measurement	
	Code	Description
	I	Imperial
	M	Metric

Notes:

- 1. 316/304 thermowells with 3/4" or 1" NPT process connections are manufactured from round bar with milled wrench hex. Exotic material thermowells ¾" NPT include a wrench hex, exotics 1" NPT are finished with 2 wrench flats. All thermowells with 1-1/4" and 1-1/2" NPT process connections are manufactured from round bar with 2 wrench flats.
- 2. Stem is available in straight shank 0.787" (20mm) or 0.984" (25mm)
- 3. Max helical length is 18"

North America's Leading Instrumentation Hardware Manufacturer



- Brass Plug & Chain
 - Stainless Plug & Chain
 - Teflon Coating
 - Stellite Overlay
 - Kynar Coating
 - Dye Penetrant Test
 - Dye Penetrant Cap
 - Dye Penetrant Root (Optional)
 - Internal Hydrostatic Testing
 - External Hydrostatic Testing
- Material Test Report (MTR)
 - Nace MR0175
 - PMI
 - Tantalum Sheath (Flanged Only)
 - Velocity Calculation per PTC 19.3 TW-2010
 - X-Ray
 - O2 Cleaning
 - Post Weld Heat Treatment
 - UT bore concentricity
- UT phased array
 - CofC (Certificate of compliance)
 - COO (certificate of origin)
 - Traceability Index
 - ITP (Inspection Test Plan)
 - Stamping
 - SS tags
 - Visual dimensional report
 - Electro polish
 - Pickle and Passivation



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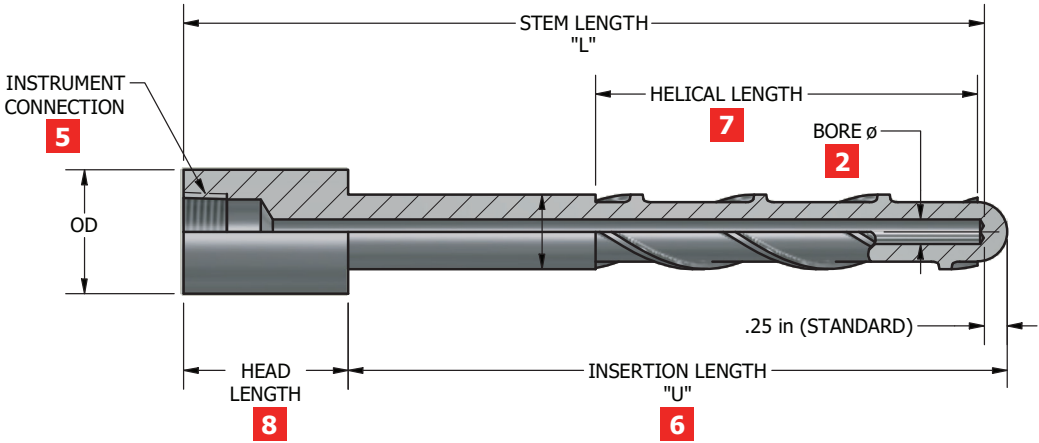
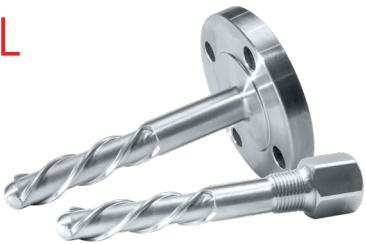


TW24 SOCKET-WELD HELICAL THERMOWELL

As a pioneer and global leader in manufacturing thermowells, we ensure the highest quality and precision in every instrumentation piece we manufacture. Whether they are custom-made for highly specialized measurements or they are standard configuration, each and every thermowell is built to meet or exceed accepted standards.

Our helical thermowells features VE Technology, which will optimize the performance and durability in high-pressure flow applications.

Designed to withstand high velocity flow applications, where standard thermowells would often fail.



Please note: Various configurations may not be available. Mac-Weld will notify you if you have selected a incompatible part combination.

TW24	A	BA	L2	AA	04500	02500	01750	0787	0787	I
1	2	3	4	5	6	7	8	9	10	11

1	Thermowell Style
Code	Description
TW24	Socket-Weld Helical

2	Bore Size
Code	Description
A	0.260
B	0.385
C	0.515
D	0.203
E	0.375
F	0.390
G	0.343
M	0.406
N	0.280
O	0.302
P	0.315
R	0.276
U	0.394
V	0.354
X	0.437
K	0.703

3	Process Connection
Code	Description
BA	3/4" Pipe (1.05" Dia)
BB	1" Pipe (1.315" Dia)
BC	1-1/4" OD
BD	1-1/2" OD
BE	1-3/4" OD
BF	1-1/4" Pipe (1.660" Dia)
BG	1-1/2" Pipe (1.900" Dia)
BI	1" OD
BJ	2" OD
BK	2-1/4" OD
BL	2-3/8" OD
BM	2-1/2" OD

Custom sizes, connections and materials may not be listed, contact Mac-Weld today to find out more.

4	Material
Code	Description
L2	316/316L
H2	304/304L
H3	304H
K2	310/310H
L3	316H
J1	317
J3	317L
M2	321/H
M3	RA330
N2	347/H
N3	410
N4	446
N5	HR160
S3	904L
S4	AL-6XN
S2	Alloy 20
S1	Alloy 200
R1	Alloy 400
P1	Alloy 600
P3	Alloy 601
P2	Alloy 625
Q3	Alloy 800/H/HT
Q1	Alloy 825
U2	Alloy B2
U3	Alloy B3
U4	Alloy C-22

4	Material (Continued)
Code	Description
U1	Alloy C-276
R2	Alloy K500
U5	Alloy X
C1	Aluminum 6061
A1	Brass
E4	Carbon Steel 1018
E3	Carbon Steel 12L14
E1	Carbon Steel ASTM A105
G1	Chrome-M-Moly F22
F1	Chrome-Moly-F11
F6	Chrome-Moly-F5
F7	Chrome-Moly-F9
F8	Chrome-Moly-F91
Y2	CPVC
F2	Duplex F51/2205
E2	LF2
B1	Naval Brass
Y1	PVC
F4	Stainless F44/254 SMO
F3	Super Duplex F53/2507
F5	Super Duplex F55
W1	Teflon
T1	Tit Gr2
T2	Tit Gr5
T3	Tit Gr7
Z1	Zirc 702

5	Instrument Connection
Code	Description
AA	1/2" NPT
AB	3/4" NPT
AC	1" NPT
AD	1-1/4" NPT
AE	1-1/2" NPT
AF	1/2" NPSM
AG	G 1/2 male
AH	G 3/4 B male
AI	G 3/4 male
AJ	M14 x 1.5 female
AK	M18 x 1.5 female
AL	M20 x 1.5 female
AM	M20 x 1.5 male
AN	M24 x 1.5 female
AO	M24 x 1.5 male
AP	M27 x 2.0 female
AQ	M27 x 2.0 male
BA	3/4" Pipe (1.05" Dia)
BB	1" Pipe (1.315" Dia)
BC	1-1/4" OD
BD	1-1/2" OD
BE	1-3/4" OD

6	Insertion Length
Code	Description
xxxxx	Imperial: 6.500" = 06500 Metric: 165.1 mm = 01651
*U length >= 100,000" or 10,000.0mm see sales person for custom part number	

7	Helical Length
Code	Description
xxxxx	Imperial: 3.25" = 02250 Metric: 82.6 mm = 00826

8	Head Length
Code	Description
xxxxx	Imperial: 2.25" = 02250 Metric: 57.2 mm = 00572

9	Root Diameter
Code	Description
xxxx	Imperial: 0.787" = 0787 Metric: 20.0 mm = 0200
xxxx	Imperial: 0.984" = 0984 Metric: 25.0 mm = 0250

10	Tip Diameter
Code	Description
xxxx	Imperial: 0.787" = 0787 Metric: 20.0 mm = 0200
xxxx	Imperial: 0.984" = 0984 Metric: 25.0 mm = 0250

11	Measurement
Code	Description
I	Imperial
M	Metric

- Notes:
1. Stem is available in straight shank 0.787" (20mm) or 0.984" (25mm)
 2. Max helical length is 18"



- Brass Plug & Chain
 - Stainless Plug & Chain
 - Teflon Coating
 - Stellite Overlay
 - Kynar Coating
 - Dye Penetrant Test
 - Dye Penetrant Cap
 - Dye Penetrant Root (Optional)
 - Internal Hydrostatic Testing
 - External Hydrostatic Testing
- Material Test Report (MTR)
 - Nace MR0175
 - PMI
 - Tantalum Sheath (Flanged Only)
 - Velocity Calculation per PTC 19.3 TW-2010
 - X-Ray
 - O2 Cleaning
 - Post Weld Heat Treatment
 - UT bore concentricity
- UT phased array
 - CofC (Certificate of compliance)
 - COO (certificate of origin)
 - Traceability Index
 - ITP (Inspection Test Plan)
 - Stamping
 - SS tags
 - Visual dimensional report
 - Electro polish
 - Pickle and Passivation

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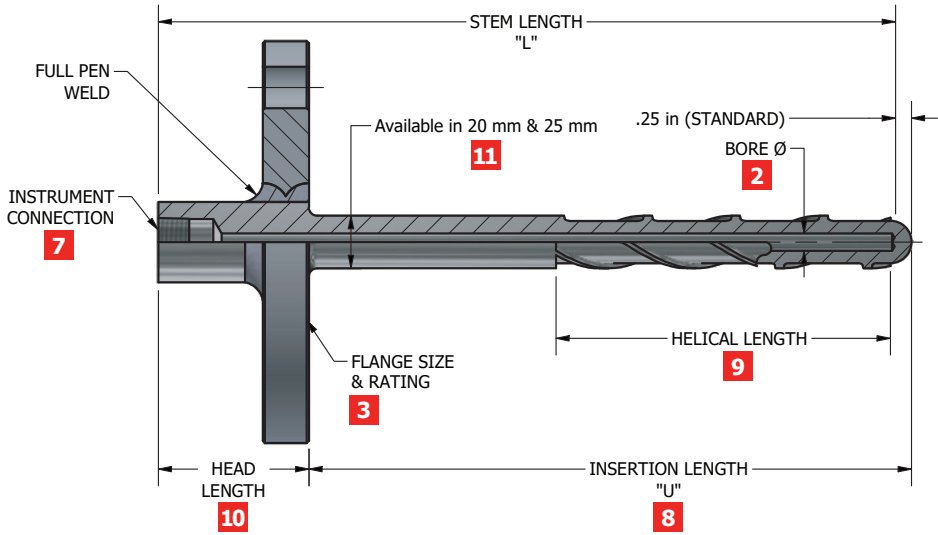
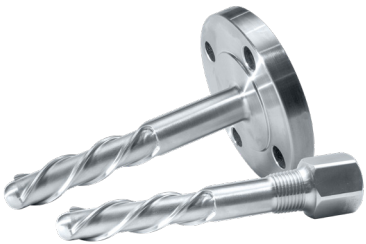


TW34 FLANGED HELICAL THERMOWELL

As a pioneer and global leader in manufacturing thermowells, we ensure the highest quality and precision in every instrumentation piece we manufacture. Whether they are custom-made for highly specialized measurements or they are standard configuration, each and every thermowell is built to meet or exceed accepted standards.

Our helical thermowells features VE Technology, which will optimize the performance and durability in high-pressure flow applications.

Designed to withstand high velocity flow applications, where standard thermowells would often fail.



Please note: Various configurations may not be available, Mac-Weld will notify you if you have selected a incompatible part combination.

TW34	A	DK	C	L2	L2	AA	01750	10000	02250	0787	0787	I
1	2	3	4	5	6	7	8	9	10	11	12	13

1	Thermowell Style
Code	Description
TW34	Flange Helical

2	Bore Size
Code	Description
A	0.260
B	0.385
C	0.515
D	0.203
E	0.375
F	0.390
G	0.343
M	0.406
N	0.280
O	0.302
P	0.315
R	0.276
U	0.394
V	0.354
X	0.437
K	0.703

Custom sizes, connections and materials may not be listed, contact Mac-Weld today to find out more.

3	Flange Size & Rating
Code	Description
CK	1" 150#
CL	1" 300#
CM	1" 600#
CN	1" 900#-1 500#
CO	1" 2500#
CU	1-1/2" 150#
CV	1-1/2" 300#
CW	1-1/2" 600#
CX	1-1/2" 900#-1 500#
CY	1-1/2" 2500#
CZ	2" 150#
DA	2" 300#
DB	2" 600#
DC	2" 900#-1 500#
DD	2" 2500#
DD	2" 2500#
DJ	3" 150#
DK	3" 300#
DL	3" 600#
DM	3" 900#
DN	3" 1500#
DO	3" 2500#
DP	4" 150#
DQ	4" 300#
DR	4" 600#
DS	4" 900#
DT	4" 1500#
DU	4" 2500#
DV	5" 150#
DW	5" 300#
DX	5" 600#
DY	5" 900#
EB	6" 150#
EC	6" 300#
ED	6" 600#
EE	6" 900#
EH	8" 150#
EI	8" 300#
EN	10" 150#
EQ	10" 900#
ET	12" 150#
EV	12" 600#

4	Flange Facing
Code	Description
A	FF (flat face)
B	RF (raised face)
C	RTJ (ring type joint)
D	RTF (RTJ no groove)
E	HH (High Hub)
F	DBRF (Double Raised Face)
G	DIN 2526 Form E
H	DIN 2526 Form N
I	DIN 2526 Form F
J	EN 1092-1 Form B1
K	EN 1092-1 Form B2
L	EN 1092-1 Form C
M	EN 1092-1 Form D

5	Stem Material
Code	Description
L2	316/316L
H2	304/304L
H3	304H
K2	310/310H
L3	316H
J1	317
J3	317L
M2	321/H
M3	RA330
N2	347/H
N3	410
N4	446
N5	HR160
S3	904L
S4	AL-6XN
S2	Alloy 20
S1	Alloy 200
R1	Alloy 400
P1	Alloy 600
P3	Alloy 601
P2	Alloy 625
Q3	Alloy 800/H/HT

5	Stem Material (Continued)
Code	Description
Q1	Alloy 825
U2	Alloy B2
U3	Alloy B3
U4	Alloy C-22
U1	Alloy C-276
R2	Alloy K500
U5	Alloy X
E1	Carbon Steel ASTM A105
D2	Carbon Steel W44
G1	Chrome-M-Moly F22
F1	Chrome-Moly-F11
F6	Chrome-Moly-F5
F7	Chrome-Moly-F9
F8	Chrome-Moly-F91
Y2	CPVC
F2	Duplex F51/2205
E2	LF2
B1	Naval Brass
Y1	PVC
F4	Stainless F44/254 SMO
F3	Super Duplex F53/2507
F5	Super Duplex F55
W1	Teflon
T1	Ti1 Gr2
T2	Ti1 Gr5
T3	Ti1 Gr7
Z1	Zirc 702

6	Flange Material
Code	Description
*See stem material list [5] for available flange material choices.	

7	Instrument Connection
Code	Description
AA	1/2" NPT
AB	3/4" NPT
AC	1" NPT
AD	1-1/4" NPT
AE	1-1/2" NPT
AF	1/2" NPSM
AG	G 1/2 male
AH	G 3/4 B male
AI	G 3/4 male
AJ	M14 x 1.5 female
AK	M18 x 1.5 female
AL	M20 x 1.5 female
AM	M20 x 1.5 male
AN	M24 x 1.5 female
AO	M24 x 1.5 male
AP	M27 x 2.0 female
AQ	M27 x 2.0 male
BA	3/4" Pipe (1.05" Dia.)
BB	1" Pipe (1.315" Dia.)
BC	1-1/4" OD
BD	1-1/2" OD
BE	1-3/4" OD
BF	1-1/4" Pipe (1.660" Dia.)
BG	1-1/2" Pipe (1.900" Dia.)
BH	1/2" Pipe (0.840" Dia.)
AV	5/8" - 18 UNF
AW	3/4" - 16 UNF
AX	7/8" - 14 UNF
AY	1" - 14 UNF
AZ	3/8" NPT

8	Insertion Length
Code	Description
xxxxx	Imperial: 6.500" = 06500 Metric: 165.1 mm = 01651
*U length >= 100,000" or 10,000.0mm see sales person for custom part number	

9	Helical Length
Code	Description
xxxxx	Imperial: 3.25" = 02250 Metric: 82.6 mm = 00826

10	Head Length
Code	Description
xxxxx	Imperial: 2.25" = 02250 Metric: 57.2 mm = 00572

11	Root Diameter
Code	Description
xxxx	Imperial: 0.787" = 0787 Metric: 20.0 mm = 0200
xxxx	Imperial: 0.984" = 0984 Metric: 25.0 mm = 0250

12	Tip Diameter
Code	Description
xxxx	Imperial: 0.787" = 0787 Metric: 20.0 mm = 0200
xxxx	Imperial: 0.984" = 0984 Metric: 25.0 mm = 0250

13	Measurement
Code	Description
I	Imperial
M	Metric

OPTIONS

- Brass Plug & Chain
- Stainless Plug & Chain
- Dye Penetrant Test
- Internal & External Hydrostatic Testing
- Material Test Report (MTR)
- PMI
- and more.....

Notes:

- Stem is available in straight shank 0.787" (20mm) or 0.984" (25mm)
- Max helical length of 18"

North America's Leading Instrumentation Hardware Manufacturer



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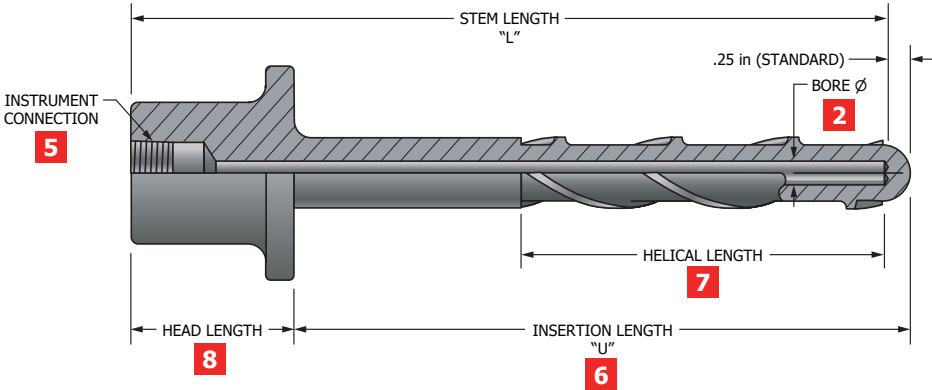
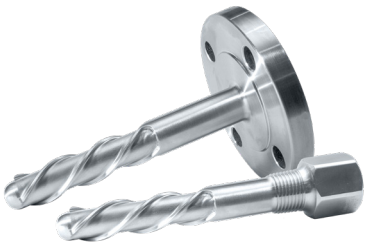
TW64

VANSTONE HELICAL THERMOWELL

As a pioneer and global leader in manufacturing thermowells, we ensure the highest quality and precision in every instrumentation piece we manufacture. Whether they are custom-made for highly specialized measurements or they are standard configuration, each and every thermowell is built to meet or exceed accepted standards.

Our helical thermowells features VE Technology, which will optimize the performance and durability in high-pressure flow applications.

Designed to withstand high velocity flow applications, where standard thermowells would often fail.



Please note: Various configurations may not be available. Mac-Weld will notify you if you have selected a incompatible part combination.

TW64	A	VB	L2	AA	10000	02500	02250	0787	0787	I
1	2	3	4	5	6	7	8	9	10	11

1	Thermowell Style
Code	Description
TW64	Vanstone Helical

2	Bore Size
Code	Description
A	0.260
B	0.385
C	0.515
D	0.203
E	0.375
F	0.390
G	0.343
M	0.406
N	0.280
O	0.302
P	0.315
R	0.276
U	0.394
V	0.354
X	0.437
K	0.703

3	Process Connection
Code	Description
VA	1" (2.000" Dia)
VB	1.5" (2.875" Dia)
VC	2" (3.625" Dia)
VD	1" 150# RTJ (2.500" Dia)
VE	1" 300/600# RTJ (2.750" Dia)
VF	1" 900/1500# RTJ (2.810" Dia)
VG	1" 2500# RTJ (3.250" Dia)
VH	1-1/2" 150# RTJ (3.250" Dia)
VI	1-1/2" 300/600# RTJ (3.560" Dia)
VJ	1-1/2" 900/1500# RTJ (3.620" Dia)
VK	1-1/2" 2500# RTJ (4.500" Dia)
VL	2" 150# RTJ (4.000" Dia)
VM	2" 300/600# RTJ (4.250" Dia)
VN	2" 900/1500# RTJ (4.880" Dia)
VO	2" 2500# RTJ (5.250" Dia)

Custom sizes, connections and materials may not be listed, contact Mac-Weld today to find out more.

4	Material
Code	Description
L2	316/316L
H2	304/304L
H3	304H
K2	310/310H
L3	316H
J1	317
J3	317L
M2	321/H
M3	RA330
N2	347/H
N3	410
N4	446
N5	HR160
S3	904L
S4	AL-6XN
S2	Alloy 20
S1	Alloy 200
R1	Alloy 400
P1	Alloy 600
P3	Alloy 601
P2	Alloy 625
Q3	Alloy 800/H/HT
Q1	Alloy 825
U2	Alloy B2
U3	Alloy B3
U4	Alloy C-22

4	Material (Continued)
Code	Description
U1	Alloy C-276
R2	Alloy K500
U5	Alloy X
C1	Aluminum 6061
A1	Brass
E1	Carbon Steel ASTM A105
G1	Chrome-M-Moly F22
F1	Chrome-Moly-F11
F6	Chrome-Moly-F5
F7	Chrome-Moly-F9
F8	Chrome-Moly-F91
Y2	CPVC
F2	Duplex F51/2205
E2	LF2
B1	Naval Brass
Y1	PVC
F4	Stainless F44/254 SMO
F3	Super Duplex F53/2507
F5	Super Duplex F55
W1	Teflon
T1	Ti Gr2
T2	Ti Gr5
T3	Ti Gr7
Z1	Zirc 702

5	Instrument Connection
Code	Description
AA	1/2" NPT
AB	3/4" NPT
AC	1" NPT
AD	1-1/4" NPT
AE	1-1/2" NPT
AF	1/2" NPSM
AS	1/2" NPT TO CSA
AZ	1/2" ANPT
AR	1/4" NPT
AT	1/8" NPT
AG	1/2" BSPP
AH	3/4" BSPP
AI	1/2" BSPT
AJ	3/4" BSPT
AK	M14 x 1.5
AL	M18 x 1.5
AM	M20 x 1.5
AN	M24 x 1.5
AO	M27 x 2.0
AP	1/4" - 20 UNF
AQ	3/8" - 24 UNF
AU	1/2" - 20 UNF
AV	5/8" - 18 UNF
AW	3/4" - 16 UNF
AX	7/8" - 14 UNF
AY	1" - 14 UNF
AZ	3/8" NPT
BA	3/4" Pipe (1.05" Dia.)
BB	1" Pipe (1.315" Dia)
BC	1-1/4" OD
BD	1-1/2" OD
BE	1-3/4" OD
BF	1-1/4" Pipe (1.660" Dia.)
BG	1-1/2" Pipe (1.900" Dia.)
BH	1/2" Pipe (0.840" Dia.)

6	Insertion Length
Code	Description
xxxx	Imperial: 6.500" = 06500 Metric: 165.1 mm = 01651
*U length >= 100,000" or 10,000.0mm see sales person for custom part number	

7	Helical Length
Code	Description
xxxx	Imperial: 3.25" = 02250 Metric: 82.6 mm = 00826

8	Head Length
Code	Description
xxxx	Imperial: 2.25" = 02250 Metric: 57.2 mm = 00572

9	Root Diameter
Code	Description
xxxx	Imperial: 0.787" = 0787 Metric: 20.0 mm = 0200
xxxx	Imperial: 0.984" = 0984 Metric: 25.0 mm = 0250

10	Tip Diameter
Code	Description
xxxx	Imperial: 0.787" = 0787 Metric: 20.0 mm = 0200
xxxx	Imperial: 0.984" = 0984 Metric: 25.0 mm = 0250

11	Measurement
Code	Description
I	Imperial
M	Metric

Notes:

- 1. Stem is available in straight shank 0.787" (20mm) or 0.984" (25mm)
- 2. Max helical length of 18"
- 3. Optional backing flanges available for Mac-Weld vanstone thermowells. See factory for details.



- Brass Plug & Chain
 - Stainless Plug & Chain
 - Teflon Coating
 - Stellite Overlay
 - Kynar Coating
 - Dye Penetrant Test
 - Dye Penetrant Cap
 - Dye Penetrant Root (Optional)
 - Internal Hydrostatic Testing
 - External Hydrostatic Testing
- Material Test Report (MTR)
 - Nace MR0175
 - PMI
 - Tantalum Sheath (Flanged Only)
 - Velocity Calculation per PTC 19.3 TW-2010
 - X-Ray
 - O2 Cleaning
 - Post Weld Heat Treatment
 - UT bore concentricity
- UT phased array
 - CofC (Certificate of compliance)
 - COO (certificate of origin)
 - Traceability Index
 - ITP (Inspection Test Plan)
 - Stamping
 - SS tags
 - Visual dimensional report
 - Electro polish
 - Pickle and Passivation

North America's Leading Instrumentation Hardware Manufacturer



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