



**TRYNOX**®

**PRODUCT CATALOG**



# INDEX

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Introduction .....	3
3A .....	4
Clamp .....	8
Bevel Seat .....	12
E-line .....	14
Biopharm .....	15
SMS .....	17
DIN .....	22
Valve .....	27
Tubing .....	36
Accessories.....	37
Spare Parts .....	41
Attachments .....	44

# INTRODUCTION

**W**elcome to Trynox™, our organization, located in Miami, Florida, is dedicated to design and manufacture sanitary-grade fittings and accessories, our products meets 3A Standards, and to withstand the most challenging operating environment for food, beverage and pharmaceutical industry.

Making emphasis in sanitary fitting accessories and couplings performance research, to improve ergonomic handling, searching for the best way to get keyless fittings as well.

Continuously studying connections and accessories to find out their impact into the sanitary manufacturing processes so we can innovate with products more efficient and easier to operate.

We have commercial partners in Latin America and United States, we keep contact with our end users, to get their feedback regarding our product performance to provide the best technical support and a high value-added products.

We understand the material quality and traceability are very important factors to offer a truly sanitary product for production processes which are very sensitive to any contaminant agent.

Supported on a modern technologically advanced welding and fabrication equipment allows Trynox™ to manufacture the highest quality fittings available, with efficiency. Our commitment to provide traceability, quality, pricing, and one of the lowest lead times in the industry. Every Trynox™ product in manufactured in accordance with strict quality control procedures, and all Trynox™ products are backed by our limited warranty.

Some of our customers are: Procter & Gamble, Colgate-Palmolive, Heinz, Kellog's, Coca-cola, Pepsico, Gatorade, Cerveceria Polar, Pfizer, Bayer, Novartis General Mills.

Trynox's™ product lines are constantly expanding, so be sure to check website often for new items and sizes. If you can't find what you're looking for, just give us CALL at (305) 433-83-62. Knowledgeable Trynox™ representatives are standing by assist you.

Thank you for your interest in Trynox™. We look forward to serving all of your sanitary stainless steel tube, valve, and fitting needs.

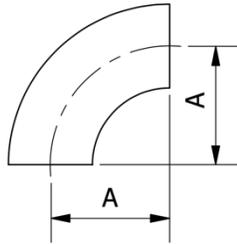
**Carlos Simanca**  
CEO

[www.trynox.com](http://www.trynox.com)

# 3A

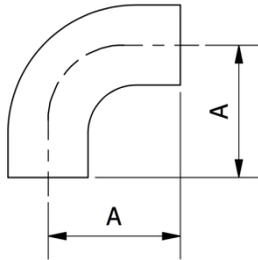


### 3A 90° WELDING SHORT ELBOW



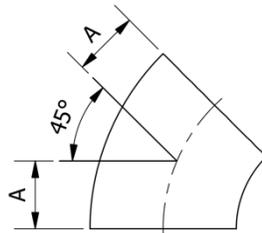
Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1"x .065"	25.4x1.65	T2AW51.0	1-1/2"	38.1	0.19
1.5"x .065"	38.1x1.65	T2AW51.5	2 -1/4"	57.2	0.3
2"x .065"	50.8x1.65	T2AW52.0	3"	76.1	0.48
2.5"x .065"	63.5x1.65	T2AW52.5	3 -3/4"	95.3	0.70
3"x .065"	76.1x1.65	T2AW53.0	4 -1/2"	114.3	1.10
4"x .083"	101.6x2.1	T2AW54.0	6"	152.4	2.40

### 3A 90° WELDING ELBOW (With Straight Ends)



Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1"x .065"	25.4x1.65	T2AWL1.0	2.17"	55	0.24
1.5"x .065"	38.1x1.65	T2AWL1.5	276"	70	0.32
2"x .065"	50.8x1.65	T2AWL2.0	3.23"	82	0.59
2.5"x .065"	63.5x1.65	T2AWL2.5	4.13"	105	1.20
3"x .065"	76.1x1.65	T2AWL3.0	4.33"	110	1.40
4"x .083"	101.6x2.1	T2AWL4.0	5.91"	150	2.50

### 3A 45° WELDING SHORT ELBOW



Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1"x .065"	25.4x1.65	T2AK51.0	5/8"	15.9	0.095
1.5"x .065"	38.1x1.65	T2AK51.5	15/16"	23.8	0.15
2"x .065"	50.8x1.65	T2AK52.0	1-1/4"	31.8	0.27
2.5"x .065"	63.5x1.65	T2AK52.5	1-9/16"	39.7	0.35
3"x .065"	76.1x1.65	T2AK53.0	1-7/8"	47.6	0.60
4"x .083"	101.6x2.1	T2AK54.0	2-1/2"	63.5	1.30

\* Add "4" at the end of the ref. code for 304L Stainless Steel  
 \* Add "6" at the end of the ref. code for 316L Stainless Steel  
 \* Net weight in pounds.

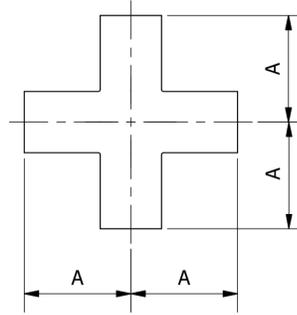


**TRYNOX**

**3A**

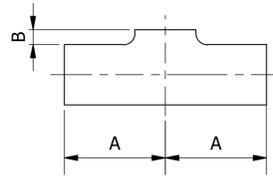
**3A WELDING CROSS**

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1"x .065"	25.4x1.65	T9AWS1.0	1-7/8"	47.5	0.29
1.5"x .065"	38.1x1.65	T9AWS1.5	2-1/4"	57.5	0.60
2"x .065"	50.8x1.65	T9AWS2.0	3"	76.1	0.90
2.5"x .065"	63.5x1.65	T9AWS2.5	3"	76.1	1.30
3"x .065"	76.1x1.65	T9AWS3.0	3-1/4"	82.5	1.80
4"x .083"	101.6x2.1	T9AWS4.0	3-7/8"	98.4	2.60



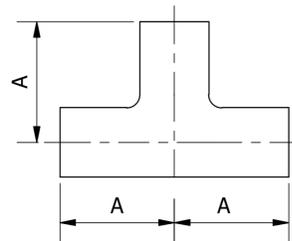
**3A WELDING SHORT TEE**

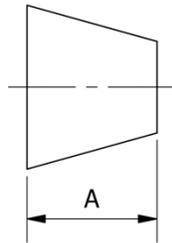
Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1"x .065"	25.4x1.65	T7AWS1.0	1-7/8"	47.5	0.23
1.5"x .065"	38.1x1.65	T7AWS1.5	2-1/4"	57.5	0.41
2"x .065"	50.8x1.65	T7AWS2.0	3"	76.1	0.60
2.5"x .065"	63.5x1.65	T7AWS2.5	3"	76.1	0.90
3"x .065"	76.1x1.65	T7AWS3.0	3-1/4"	82.5	1.40
4"x .083"	101.6x2.1	T7AWS 4.0	3-7/8"	98.4	3.30



**3A WELDING EQUAL TEE (With Straight Ends)**

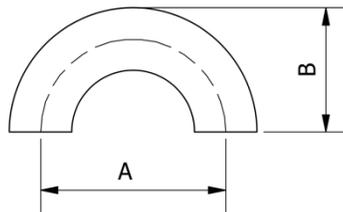
Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1"x .065"	25.4x1.65	T7AWL1.0	1-7/8"	47.5	0.29
1.5"x .065"	38.1x1.65	T7AWL1.5	2-1/4"	57.5	0.57
2"x .065"	50.8x1.65	T7AWL2.0	3"	76.1	0.77
2.5"x .065"	63.5x1.65	T7AWL2.5	3"	76.1	1.30
3"x .065"	76.1x1.65	T7AWL3.0	3-1/4"	82.5	1.70
4"x .083"	101.6x2.1	T7AWL4.0	3-7/8"	98.4	3.80





### 3A WELDING CONCENTRIC REDUCER

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1.5"x1"	38.1x25.4	T31AW06	2"	50.8	0.11
2"x1"	50.8x25.4	T31AW09	4"	101.6	0.17
2"x1.5"	50.8x38.1	T31AW10	2"	50.8	0.17
2.5"x1.5"	63.5x38.1	T31AW12	4"	101.6	0.27
2.5"x2"	63.5x50.8	T31AW13	2"	50.8	0.21
3"x1.5"	76.1x38.1	T31AW15	6"	152.4	0.41
3"x2"	76.1x50.8	T31AW16	4"	101.6	0.30
3"x2.5"	76.1x63.5	T31AW17	2"	50.8	0.30
4"x2"	101.6x50.8	T31AW20	8"	205	0.80
4"x2.5"	101.6x63.5	T31AW21	6"	152.4	0.70
4"x3"	101.6x76.1	T31AW22	4"	101.6	0.59



### 3A WELDING "U" ELBOW

Size		Ref.	A		B		Net. W (#)
Inch	mm		Inch	mm	Inch	mm	
1"	25.4	ZWUA1.0	3"	76.1	2"	50.8	0.38
1.5"	38.1	ZWUA1.5	4.5"	114.3	3"	76.1	0.48
2"	50.8	ZWUA2.0	6"	152.4	4"	101.6	0.96
2.5"	63.5	ZWUA2.5	7.5"	190.5	5"	127.0	1.4
3"	76.1	ZWUA3.0	9"	228.6	6"	152.4	2.20
4"	101.6	ZWUA4.0	12"	304.8	8"	203.2	5.0

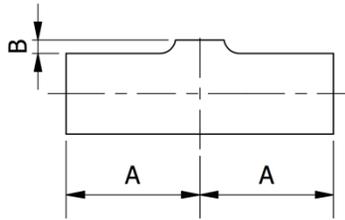
\* Add "4" at the end of the ref. code for 304L Stainless Steel  
 \* Add "6" at the end of the ref. code for 316L Stainless Steel  
 \* Net weight in pounds.



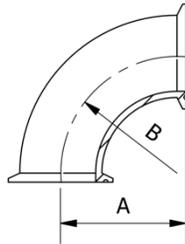
### 3A WELDING SHORT REDUCER TEE (Without Straight Ends)

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1.5"x1"	38.1x25.4	T7AWR06	1-21/32"	42	0.38
2"x1"	50.8x25.4	T7AWR09	2-1/16"	52.37	0.59
2"x1.5"	50.8x38.1	T7AWR10			0.59
2.5"x1"	63.5x25.4	T7AWR11	2-11/32"	59.53	1.32
2.5"x1.5"	63.5x38.1	T7AWR12			1.03
2.5"x2"	63.5x50.8	T7AWR13			1.02
3"x1.5"	76.1x38.1	T7AWR15	2-19/32"	65.04	1.44
3"x2"	76.1x50.8	T7AWR16			1.41
3"x2.5"	76.1x63.5	T7AWR17			1.30
4"x1.5"	101.6x38.1	T7AWR19	3-7/16"	87.32	3.40
4"x2"	101.6x50.8	T7AWR20			3.30
4"x2.5"	101.6x63.5	T7AWR21			3.10
4"x3"	101.6x76.1	T7AWR22			3.30

NOTE: B = (1/8") (3.1mm)

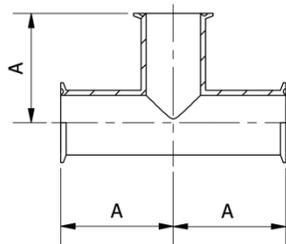


# CLAMP



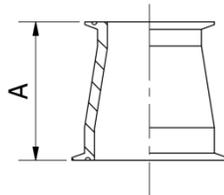
## CLAMP 90° ELBOW

Size		Ref.	A		B		Net. W (#)
Inch	mm		Inch	mm	inch	mm	
1"	25.4	T2CMP1.0	2"	50.8	1-1/2"	38.1	0.41
1.5"	38.1	T2CMP1.5	2-3/4"	69.85	2-1/4"	57.2	0.45
2"	50.8	T2CMP2.0	3-1/2"	88.9	3"	76.1	0.71
2.5"	63.5	T2CMP2.5	4-1/4"	107.95	3-3/4"	95.3	1.14
3"	76.1	T2CMP3.0	5"	127	4-1/2"	114.2	1.54
4"	101.6	T2CMP4.0	6-5/8"	168.28	6"	152.4	3.38



## CLAMP EQUAL TEE

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1"	25.4	T7CMP1.0	2-3/8"	60.3	0.65
1.5"	38.1	T7CMP 1.5	2-3/4"	69.85	0.74
2"	50.8	T7CMP 2.0	3-1/2"	88.9	1.21
2.5"	63.5	T7CMP 2.5	3-3/4"	95.25	1.56
3"	76.1	T7CMP 3.0	4-1/2"	114.3	1.83
4"	101.6	T7CMP 4.0	6-1/2"	165.1	3.81



## CLAMP CONCENTRIC REDUCER

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1.5"x1"	38.1x25.4	T314MP06	3"	76.1	0.36
2"x1"	50.8x25.4	T314MP09	5"	127	0.53
2"x1.5"	50.8x38.1	T314MP10	3"	76.1	0.41
2.5"x1"	63.5x25.4	T314MP11	7"	177.8	1.12
2.5"x1.5"	63.5x38.1	T314MP12	5"	127	0.60
2.5"x2"	63.5x50.8	T314MP13	3"	76.1	0.57
3"x1"	76.1x25.4	T314MP14	9"	229	1.32
3"x1.5"	76.1x38.1	T314MP15	7"	177.8	1.26
3"x2"	76.1x50.8	T314MP16	5"	127	0.95
3"x2.5"	76.1x63.5	T314MP17	3"	76.1	0.66
4"x1"	101.6x25.4	T314MP18	9"	229	2.95
4"x1.5"	101.6x38.1	T314MP19	11-1/8"	282.58	1.60
4"x2"	101.6x50.8	T314MP20	9-1/8"	231.78	1.30
4"x2.5"	101.6x63.5	T314MP21	7-1/7"	180.97	2.00
4"x3"	101.6x76.1	T314MP22	5-1/8"	130.18	1.63

\* Add "4" at the end of the ref. code for 304L Stainless Steel  
 \* Add "6" at the end of the ref. code for 316L Stainless Steel  
 \* Net weight in pounds.



# TRYNOX

# CLAMP

### CLAMP - SENSE

Size		Ref.	A		Net. W. (#)	
Inch	mm		Inch	mm	A	S
0.5" - 0.75"	12.7 - 19.0	T13VT.5/.75?	1-3/16"	30.16	0.29	0.44
1.0" - 1.5"	25.4 - 38.1	T13VT1/1.5?	2-1/8"	53.90	0.47	0.62
2"	50.8	T13VT2.0?	2-21/32"	67.41	0.51	0.66
2.5"	63.5	T13VT2.5?	3-3/6"	80.90	0.78	0.93
3"	76.1	T13VT3.0?	3-23/32"	94.41	0.77	0.92
4"	101.6	T13VT4.0?	4-13/16"	122.43	1.24	1.39
6"	152.4	T13VT6.0?	6-11/16"	170.05	2.20	2.35
8"	203.2	T13VT8.0?	8-11/16"	220.85	2.45	2.6

**NOTE:** Substitute the letter "?" at the reference to "A" for ABS Handle and to "S" for Stainless Handle.



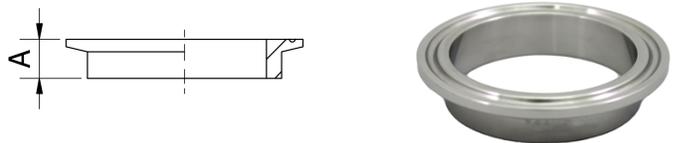
### CLAMP HEAVY DUTY

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
0.5" - 0.75"	12.7 - 19.0	T13MH.5/.75	1-3/16"	30.16	0.29
1.0" - 1.5"	25.4 - 38.1	T13MH1/1.5	2-1/8"	53.90	0.47
2"	50.8	T13MH2.0	2-21/32"	67.41	0.51
2.5"	63.5	T13MH2.5	3-3/6"	80.90	0.78
3"	76.1	T13MH3.0	3-23/32"	94.41	0.77
4"	101.6	T13MH4.0	4-13/16"	122.43	1.24
6"	152.4	T13MH6.0	6-11/16"	170.05	2.20
8"	203.2	T13MH8.0	8-11/16"	220.85	2.45



### CLAMP SHORT WELDING FERRULE

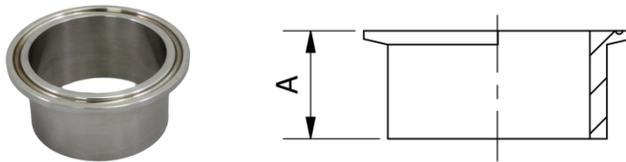
Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
0.5"	12.7	T14WM0.5	1/2"	12.7	0.05
0.75"	19.0	T14WM0.75			0.05
1"	25.4	T14WM1.0			0.15
1.5"	38.1	T14WM1.5			0.11
2"	50.8	T14WM2.0			0.14
2.5"	63.5	T14WM2.5			0.20
3"	76.1	T14WM3.0			0.21
4"	101.6	T14WM4.0	5/8"	15.87	0.38
6"	152.4	T14WM6.0	3/4"	19.05	0.89
8"	203.2	T14WM8.0			1.26





### CLAMP SOLID END CAP

Size		Ref.	A		Net. W. (#)
Inch	mm		Inch	Mm	
0.5" - 0.75"	12.7 - 19.0	T16AMP.5/1.75	3/16"	4.76	0.05
1" - 1.5"	25.4 - 38.1	T16AMP1/1.5	1/4"	6.35	0.17
2"	50.8	T16AMP2.0			0.29
2.5"	63.5	T16AMP2.5			0.44
3"	76.1	T16AMP3.0	5/16"	7.93	0.60
4"	101.6	T16AMP4.0			1.30
6"	152.4	T16AMP6.0	7/16"	11.11	3.87
8"	203.2	T16AMP8.0			6.78



### CLAMP LONG WELDING FERRULE

Size		Ref.	A		Net. W. (#)
Inch	mm		Inch	mm	
1"	25.4	T14WML1.0	1-1/8"	28.4	0.2
1.5"	38.1	T14WML1.5			0.2
2"	50.8	T14WML2.0			0.2
2.5"	63.5	T14WML2.5			0.3
3"	76.1	T14WML3.0			0.3
4"	101.6	T14WML4.0			0.5



### CLAMP GASKET

Size		Ref.	Net. W. (#)					
Inch	mm		Buna	EPDM	Viton	Teflon	Silicon	PV
0.5"	12.7	TGC0.5?	0.003	0.005	0.006	0.006	0.003	0.003
0.75"	19.0	TGC0.75?	0.003	0.003	0.003	0.003	0.003	0.003
1"	25.4	TGC1.0?	0.009	0.009	0.03	0.02	0.05	0.005
1.5"	38.1	TGC1.5?	0.009	0.009	0.01	0.02	0.02	0.02
2"	50.8	TGC2.0?	0.015	0.015	0.03	0.03	0.02	0.02
2.5"	63.5	TGC2.5?	0.015	0.015	0.03	0.03	0.02	0.02
3"	76.1	TGC3.0?	0.03	0.015	0.05	0.03	0.02	0.02
4"	101.6	TGC4.0?	0.05	0.03	0.05	0.05	0.02	0.02
6"	152.4	TGC6.0?	0.05	0.05	0.05	0.05	0.05	0.05
8"	203.2	TGC8.0?	0.05	0.05	0.01	0.08	0.05	0.05

\* Add "4" at the end of the ref. code for 304L Stainless Steel  
 \* Add "6" at the end of the ref. code for 316L Stainless Steel  
 \* Net weight in pounds.

**NOTE:** Substitute the question mark ("?) at the reference to "B" for Buna, to "E" for EPDM. To "V" for Viton, to "T" for Teflon, to "S" for Silicone and "PV" for gasket envelop Teflon/Viton.

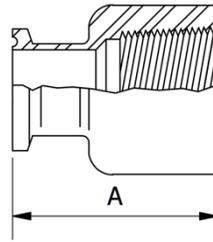


# TRYNOX

# CLAMP

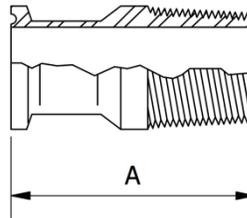
### CLAMP FEMALE NPT ADAPTER

Size		Ref.	A		Net. W.
Inch	mm		Inch	mm	
1.5"x1"	38.1x25.4	T22AMP06	1.62"	1.62	1.0
1.5"x1.5"	38.1x38.1	T22AMP1.5	2.25"	2.25	1.0
2"x1.5"	50.8x38.1	T22AMP10	1.69"	42.9	1.3
2"x2"	50.8x50.8	T22AMP2.0	2.34"	59.4	1.3



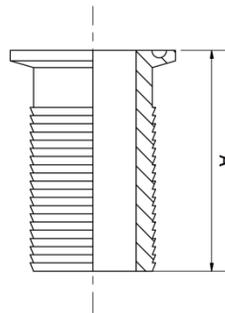
### CLAMP MALE NPT ADAPTER

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1.5"x1"	38.1x25.4	T21AMP06	2.25"	57.2	0.9
1.5"x1.5"	38.1x38.1	T21AMP1.5	2.44"	62.0	0.9
2"x1.5"	50.8x38.1	T21AMP10	2.47"	62.7	1.2
2"x2"	50.8x50.8	T21AMP2.0	2.66"	67.6	1.4



### CLAMP HOSE ADAPTER

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
0.5	12.7	TRHAC0.5	1.5"	38.1	0.05
0.75	19.05	TRHAC0.75	1.5"	38.1	0.12
1"	25.4	TRHAC1.0	1.69"	42.9	0.24
1.5"	38.1	TRHAC1.5	1.69"	42.9	0.33
2"	50.8	TRHAC2.0	2.31"	58.7	0.35
2.5"	63.5	TRHAC2.5	2.31"	58.7	0.45
3"	76.1	TRHAC3.0	3.09"	78.5	0.65
4"	101.6	TRHAC4.0	3.41"	86.6	0.93



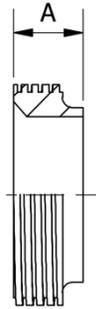
[www.trynox.com](http://www.trynox.com)

\* Add "4" at the end of the ref. code for 304L Stainless Steel

\* Add "6" at the end of the ref. code for 316L Stainless Steel

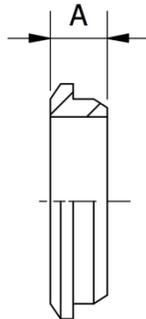
\* Net weight in pounds.

# BEVEL SEAT



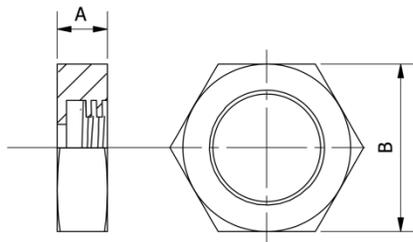
## BS SHORT THREADED WELDING FERRULE

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1"	25.4	T15TRF1.0	0.718"	18.23	0.14
1.5"	38.1	T15TRF1.5			0.20
2"	50.8	T15TRF2.0	0.750"	19.05	0.29
2.5"	63.5	T15TRF2.5	0.875"	22.22	0.47
3"	76.1	T15TRF3.0	0.906"	23.01	0.59
4"	101.6	T15TRF4.0	1.031"	26.18	1.15



## BS SHORT PLAIN WELDING FERRULE

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1"	25.4	T14PRF1.0	0.718"	18.23	0.11
1.5"	38.1	T14PRF1.5			0.17
2"	50.8	T14PRF2.0	0.750"	19.05	0.23
2.5"	63.5	T14PRF2.5	0.875"	22.22	0.35
3"	76.1	T14PRF3.0	0.906"	23.01	0.47
4"	101.6	T14PRF4.0	1.031"	26.18	0.83



## BS HEX NUT

Size		Ref.	A		B		Net. W (#)
inch	mm		Inch	mm	Inch	mm	
1"	25.4	T13H1.0	0.906"	23	1 13/16"	46.03	0.29
1.5"	38.1	T13H1.5	0.968"	24.6	2 13/32"	61.11	0.53
2"	50.8	T13H2.0	1.062"	27	3"	76.1	0.81
2.5"	63.5	T13H2.5	1.187"	30.1	3 19/32"	91.28	1.39
3"	76.1	T13H3.0	1.281"	32.53	4 3/16"	106.37	1.83
4"	101.6	T13H4.0	1.50"	38.1	5 7/16"	138.12	3.74

\* Add "4" at the end of the ref. code for 304L Stainless Steel  
 \* Add "6" at the end of the ref. code for 316L Stainless Steel  
 \* Net weight in pounds.



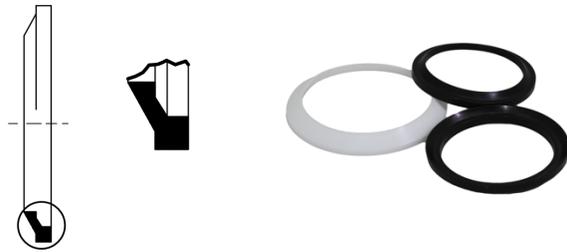
# TRYNOX

# BEVEL SEAT

## BS GASKET

Size		Ref.	Net. W. (#)	
Inch	mm		Teflon	Buna
1"	25.4	TBSG1.0?	0.03	0.02
1.5"	38.1	TBSG1.5?	0.02	0.01
2"	50.8	TBSG2.0?	0.03	0.02
2.5"	63.5	TBSG2.5?	0.03	0.02
3"	76.1	TBSG3.0?	0.03	0.03
4"	101.6	TBSG4.0?	0.04	0.04

**NOTE:** Substitute the question mark ("?) at the reference to "T" for Teflon and to "B" for Buna.



## BS PLAIN CAP

Size		Ref.	A		Net. W. (#)
Inch	mm		Inch	mm	
1"	25.4	T16A1.0	15/32"	11.88	0.17
1.5"	38.1	T16A1.5	9/16"	14.27	0.38
2"	50.8	T16A2.0	5/8"	15.87	0.71
2.5"	63.5	T16A2.5	21/32"	16.66	1.17
3"	76.1	T16A3.0	23/32"	18.23	1.77
4"	101.6	T16A4.0	13/16"	20.62	3.50

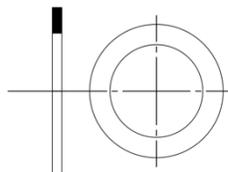
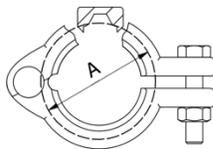
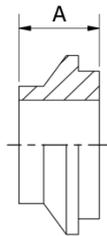


[www.trynox.com](http://www.trynox.com)

\* Add "4" at the end of the ref. code for 304L Stainless Steel

\* Add "6" at the end of the ref. code for 316L Stainless Steel

\* Net weight in pounds.



### E - LINE FEMALE WELDING FERRULE

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1"	25.4	T15WL1.0	3/4"	19.05	0.32
1.5"	38.1	T15WL1.5	31/32"	24.13	0.17
2"	50.8	T15WL2.0	1-1/64"	26.41	0.39
2.5"	63.5	T15WL2.5	1-5/32"	29.46	0.60
3"	76.1	T15WL3.0	1-7/32"	31.18	0.77
4"	101.6	T15WL4.0	1-11/32"	34.2	1.15

### E - LINE MALE WELDING FERRULE

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1"	25.4	T14W11.0	19/32"	15.08	0.21
1.5"	38.1	T14W11.5	3/4"	19.05	0.20
2"	50.8	T14W12.0	25/3"	19.84	0.29
2.5"	63.5	T14W12.5	27/32"	21.43	0.53
3"	76.1	T14W13.0	29/32"	23.01	0.65
4"	101.6	T14W14.0	1-1/32"	26.18	1.11

### E - LINE CLAMP BOLTED UNPOLISHED

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1 - 1.5"	25.4 - 38.1	T13IU11.5	2.122"	53.89	0.77
2"	50.8	T13IU2.0	2.654"	67.41	0.90
2.5"	63.5	T13IU2.5	3.185"	80.89	1.35
3"	76.1	T13IU3.0	3.717"	94.41	1.50
4"	101.6	T13IU4.0	4.820"	122.42	1.77

### E - LINE GASKET

Size		Ref.	Net. W. (#)	
Inch	mm		Buna	Teflon
1"	25.4	T31IU1.0?	0.009	0.02
1.5"	38.1	T31IU1.5?	0.009	0.02
2"	50.8	T31IU2.0?	0.015	0.03
2.5"	63.5	T31IU2.5?	0.015	0.03
3"	76.1	T31IU3.0?	0.03	0.03
4"	101.6	T31IU4.0?	0.04	0.05

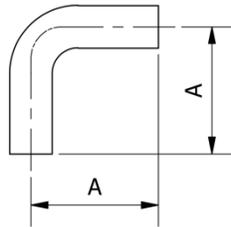
NOTE: Substitute the question mark ("?") at the reference to "B" for Buna and to "T" for Teflon.

[www.trynox.com](http://www.trynox.com)

\* Add "4" at the end of the ref. code for 304L Stainless Steel

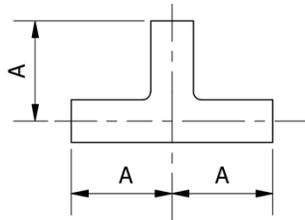
\* Add "6" at the end of the ref. code for 316L Stainless Steel

\* Net weight in pounds.



### BPE 90° ELBOW

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1/2"	12.7	TBP2C0.5	3"	55	0.15
3/4"	19.0	TBP2C0.75		70	0.21
1"	25.4	TBP2C1.0		82	0.29
1 1/2"	38.1	TBP2C1.5	3-3/4"	95.25	0.53
2"	50.8	TBP2C2.0	4-3/4"	120	0.80



### BPE TEE

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1/2"	12.7	TBP7W0.5	1-7/8"	47.63	0.14
3/4"	19.0	TBP7W0.75	2"	50.8	0.23
1"	25.4	TBP7W1.0	2-1/8"	53.98	0.33
1 1/2"	38.1	TBP7W1.5	2-3/8"	60.33	0.53
2"	50.8	TBP7W2.0	2-7/8"	73.03	0.89

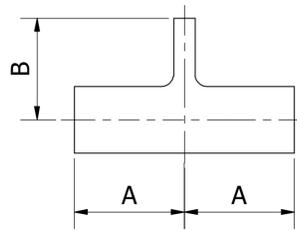


# TRYNOX

# BIOPHARM

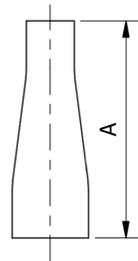
### BPE REDUCER TEE

Size		Ref.	A		B		Net. W (#)
Inch	mm		Inch	mm	Inch	mm	
3/4"x1/2"	19.0x12.7	TBP7WR01	2"	50.8	2"	50.8	0.21
1"x1/2"	25.4x12.7	TBP7WR02	2-1/8"	53.98	2-1/8"	53.98	0.29
1"x3/4"	25.4x19.0	TBP7WR03			0.29		
1 1/2"x1/2"	38.1x12.7	TBP7WR04	2-3/8"	60.33	2-3/8"	60.33	0.41
1 1/2"x3/4"	38.1x19.0	TBP7WR05					0.45
1 1/2"x1"	38.1x25.4	TBP7WR06					0.51
2"x1/2"	50.8x12.7	TBP7WR07	2-7/8"	73.03	2-5/8"	66.68	0.66
2"x3/4"	50.8x19.0	TBP7WR08					0.77
2"x1"	50.8x25.4	TBP7WR09					0.78
2"x1 1/2"	50.8x38.1	TBP7WR10					0.83

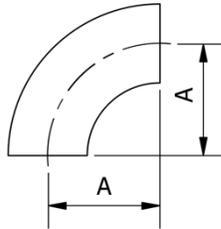


### BPE CONCENTRIC REDUCER

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	Mm	
3/4"x1/2"	19.0x12.7	TBP31W01	4"	101.6	0.14
1"x1/2"	25.4x12.7	TBP31W02	4-1/2"	114.3	0.17
1"x3/4"	25.4x19.0	TBP31W03		101.6	0.17
1 1/2"x1/2"	38.1x12.7	TBP31W04	5-1/2"	139.7	0.21
1 1/2"x3/4"	38.1x19.0	TBP31W05	5"	127.0	0.30
1 1/2"x1"	38.1x25.4	TBP31W06		0.35	
2"x1/2"	50.8x12.7	TBP31W07	7-3/4"	196.9	0.40
2"x3/4"	50.8x19.0	TBP31W08	7-1/4"	184.2	0.53
2"x1"	50.8x25.4	TBP31W09		0.65	
2"x1 1/2"	50.8x38.1	TBP31W10		133.4	0.53

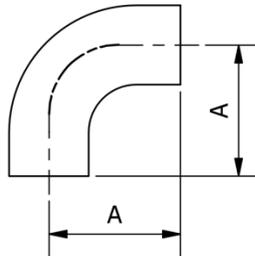


\* Add "4" at the end of the ref. code for 304L Stainless Steel  
 \* Add "6" at the end of the ref. code for 316L Stainless Steel  
 \* Net weight in pounds.



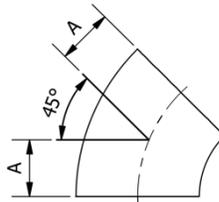
### SMS 90° WELDING SHORT ELBOW

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1"x0.059"	25.4x1.5	T2CWS1.0	1-1/2"	38.1	0.11
1.5"x0.059"	38.1x1.5	T2CWS1.5	2-1/4"	57.2	0.24
2"x0.059"	50.8x1.5	T2CWS2.0	3"	76.1	0.48
2.5"x0.065"	63.5x1.65	T2CWS2.5	3-3/4"	95.3	0.70
3"x0.065"	76.1x1.65	T2CWS3.0	4-1/2"	114.3	1.10
4"x0.083"	101.6x2.1	T2CWS4.0	6"	152.4	2.40



### SMS 90° WELDING ELBOW (With Straight Ends)

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1"x0.059"	25.4x1.5	T2CWL1.0	2.17"	55	0.14
1.5"x0.059"	38.1x1.5	T2CWL1.5	2.76"	70	0.32
2"x0.059"	50.8x1.5	T2CWL2.0	3.23"	82	0.59
2.5"x0.065"	63.5x1.65	T2CWL2.5	4.13"	105	1.20
3"x0.065"	76.1x1.65	T2CWL3.0	4.33"	110	1.40
4"x0.083"	101.6x2.1	T2CWL4.0	5.91"	150	2.50



### SMS 45° WELDING SHORT ELBOW

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1"x0.059"	25.4x1.5	T2KS1.0	5/8"	15.9	0.05
1.5"x0.059"	38.1x1.5	T2KS1.5	15/16"	23.8	0.15
2"x0.059"	50.8x1.5	T2KS2.0	1-1/4"	31.8	0.27
2.5"x0.065"	63.5x1.65	T2KS2.5	1-9/16"	39.7	0.35
3"x0.065"	76.1x1.65	T2KS3.0	1-7/8"	47.6	0.60
4"x0.083"	101.6x2.1	T2KS4.0	2-1/2"	63.5	1.30

\* Add "4" at the end of the ref. code for 304L Stainless Steel  
 \* Add "6" at the end of the ref. code for 316L Stainless Steel  
 \* Net weight in pounds.

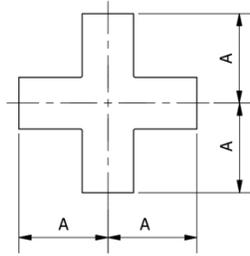


# TRYNOX

# SMS

### SMS WELDING EQUAL CROSS

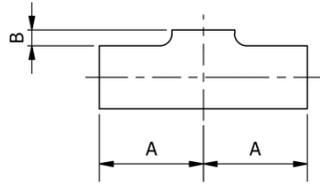
Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1"x0.059"	25.4x1.5	T9W1.0	1.87"	47.5	0.29
1.5"x0.059"	38.1x1.5	T9W1.5	2.76"	70	0.60
2"x0.059"	50.8x1.5	T9W2.0	2.99"	76	0.90
2.5"x0.065"	63.5x41.65	T9W2.5			1.30
3"x0.065"	76.1x41.65	T9W3.0	3.15"	80	1.80
4"x0.083"	101.6x2.1	T9W4.0	4.17"	106	2.60



### SMS WELDING SHORT TEE

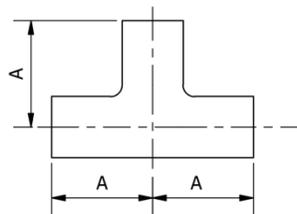
Size		Ref.	A		Net. W (#)
Inch	mm		A	B	
1"x0.059"	25.4x1.5	T7WS1.0	2.17"	55	0.23
1.5"x0.059"	38.1x1.5	T7WS1.5	2.76"	70	0.41
2"x0.059"	50.8x1.5	T7WS2.0	3.23"	82	0.60
2.5"x0.065"	63.5x1.65	T7WS2.5	4.13"	105	0.90
3"x0.065"	76.1x1.65	T7WS3.0	4.33"	110	1.40
4"x0.083"	101.6x2.1	T7WS4.0	5.91"	150	3.30

NOTE: B = (1/8") (3.2 mm)



### SMS WELDING EQUAL TEE

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1"x0.059"	25.4x1.5	T7WL1.0	2.17"	55	0.23
1.5"x0.059"	38.1x1.5	T7WL1.5	2.76"	70	0.41
2"x0.059"	50.8x1.5	T7WL2.0	3.23"	82	0.60
2.5"x0.065"	63.5x41.65	T7WL2.5	4.13"	105	0.90
3"x0.065"	76.1x41.65	T7WL3.0	4.33"	110	1.40
4"x0.083"	101.6x2.1	T7WL4.0	5.91"	150	3.80

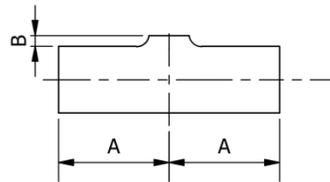


[www.trynox.com](http://www.trynox.com)

\* Add "4" at the end of the ref. code for 304L Stainless Steel

\* Add "6" at the end of the ref. code for 316L Stainless Steel

\* Net weight in pounds.

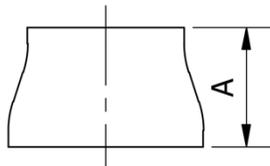


### SMS WELDING SHORT REDUCER TEE

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1.5"x1"	38.1x25.4	T7WR06	2.76"	70	0.38
2"x1"	50.8x25.4	T7WR09	3.23"	82	0.59
2"x1.5"	50.8x38.1	T7WR10			0.59
2.5"x1"	63.5x25.4	T7WR11	4.13"	105	1.32
2.5"x1.5"	63.5x38.1	T7WR12			1.03
2.5"x2"	63.5x50.8	T7WR13			1.02
3"x1"	76.1x25.4	T7WR14	4.33"	110	1.41
3"x1.5"	76.1x38.1	T7WR15			1.44
3"x2"	76.1x50.8	T7WR16			1.41
3"x2.5"	76.1x63.5	T7WR17			1.30
4"x1"	101.6x25.4	T7WR18	5.91"	150	2.90
4"x1.5"	101.6x38.1	T7WR19			3.40
4"x2"	101.6x50.8	T7WR20			3.30
4"x2.5"	101.6x63.5	T7WR21			3.10
4"x3"	101.6x76.1	T7WR22			3.30

NOTE: B = (1/8") (3.2 mm)

### SMS CONCENTRIC REDUCER



Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1.5"x1"	38.1x25.4	T31W06	1.50"	38	0.11
2"x1"	50.8x25.4	T31W09	2.20"	56	0.17
2"x1.5"	50.8x38.1	T31W10	1.50"	38	0.17
2.5"x1"	63.5x25.4	T31W11	3.66"	93	0.35
2.5"x1.5"	63.5x38.1	T31W12	2.20"	56	0.27
2.5"x2"	63.5x50.8	T31W13	1.50"	38	0.21
3"x1"	76.1x25.4	T31W14	3.62"	92	0.38
3"x1.5"	76.1x38.1	T31W15	2.91"	74	0.41
3"x2"	76.1x50.8	T31W16	2.20"	56	0.30
3"x2.5"	76.1x63.5	T31W17	1.50"	38	0.30
4"x2"	101.6x50.8	T31W19	3.74"	95	0.80
4"x2.5"	101.6x63.5	T31W21	3.07"	78	0.70
4"x3"	101.6x76.1	T31W22	2.36"	60	0.59

\* Add "4" at the end of the ref. code for 304L Stainless Steel  
 \* Add "6" at the end of the ref. code for 316L Stainless Steel  
 \* Net weight in pounds.

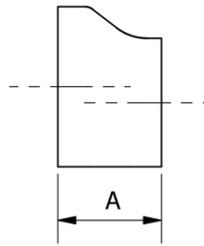


**TRYNOX**

**SMS**

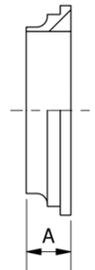
**SMS ECCENTRIC REDUCER**

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1.5"x1"	38.1x25.4	T32W06	1.81"	46	0.11
2"x1"	50.8x25.4	T32W09	2.68"	68	0.17
2"x1.5"	50.8x38.1	T32W10	1.85"	47	0.17
2.5"x1.5"	63.5x38.1	T32W12	2.36"	60	0.32
2.5"x2"	63.5x50.8	T32W13	1.73"	44	0.23
3"x1"	76.1x25.4	T32W14	4.06"	103	0.55
3"x1.5"	76.1x38.1	T32W15	3.62"	92	0.48
3"x2"	76.1x50.8	T32W16	2.68"	68	0.30
3"x2.5"	76.1x63.5	T32W17	1.85"	47	0.30
4"x2"	101.6x50.8	T32W19	4.61"	117	0.70
4"x2.5"	101.6x63.5	T32W21	3.70"	94	0.80
4"x3"	101.6x76.1	T32W22	2.91"	74	0.70



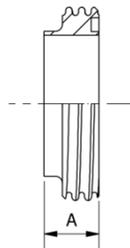
**SMS WELDING LINER**

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1"	25.4	TSWL1.0	0.59"	15	0.1
1.5"	38.1	TSWL1.5	0.79"	20	0.2
2"	50.8	TSWL2.0			0.2
2.5"	63.5	TSWL2.5	0.95"	24	0.3
3"	76.1	TSWL3.0			0.4
4"	101.6	TSWL4.0	0.98"	25	0.6



**SMS WELDING MALE**

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1"	25.4	TSWM1.0	0.59"	15	0.11
1.5"	38.1	TSWM1.5	0.79"	20	0.38
2"	50.8	TSWM2.0			0.44
2.5"	63.5	TSWM2.5	0.95"	24	0.65
3"	76.1	TSWM3.0			0.89
4"	101.6	TSWM4.0	0.98"	25	1.45

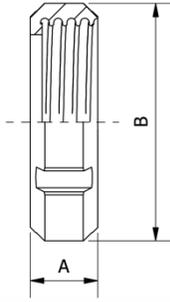


[www.trynox.com](http://www.trynox.com)

\* Add "4" at the end of the ref. code for 304L Stainless Steel

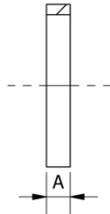
\* Add "6" at the end of the ref. code for 316L Stainless Steel

\* Net weight in pounds.



### SMS ROUND NUT

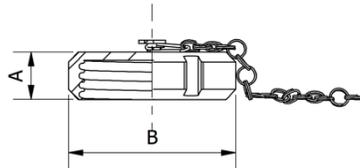
Size		Ref.	A		B		Net. W. (#)
Inch	mm		Inch	mm	Inch	mm	
1"	25.4	TSRN1.0	0.75"	19	2.01"	51	0.23
1.5"	38.1	TSRN1.5	0.91"	23	2.91"	74	0.51
2"	50.8	TSRN2.0	0.95"	24	3.31"	84	0.68
2.5"	63.5	TSRN2.5	1.10"	28	3.94"	100	1.00
3"	76.1	TSRN3.0	1.18"	30	4.49"	114	1.35
4"	101.6	TSRN4.0	1.22"	31	5.04"	128	1.50



### SMS GASKET

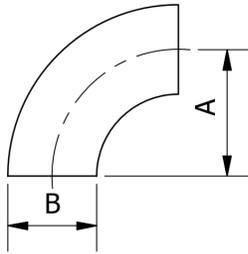
Size		Ref.	Net. W. (#)	
Inch	mm		EPDM	Silicone
1"	25.4	TSGU1.0?	0.009	0.006
1.5"	38.1	TSGU1.5?	0.009	0.009
2"	50.8	TSGU2.0?	0.05	0.02
2.5"	63.5	TSGU2.5?	0.03	0.02
3"	76.1	TSGU3.0?	0.03	0.03
4"	101.6	TSGU4.0?	0.05	0.006

**NOTE:** Substitute the question mark ("?) at the reference to "E" for EPDM and to "S" for Silicone.



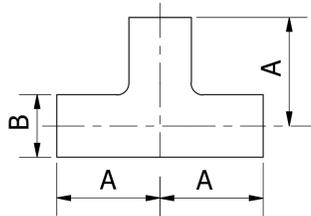
### SMS BLIND NUT WITH CHAIN

Size		Ref.	A		B		Net. W. (#)
Inch	mm		Inch	mm	Inch	mm	
1"	25.4	TSRB1.0	0.75"	19	2.01"	51	0.45
1.5"	38.1	TSRB1.5	0.91"	23	2.91"	74	0.69
2"	50.8	TSRB2.0	0.95"	24	3.31"	84	0.90
2.5"	63.5	TSRB2.5	1.10"	28	3.94"	100	1.90
3"	76.1	TSRB3.0	1.18"	30	4.49"	114	2.30
4"	101.6	TSRB4.0	1.22"	31	5.04"	128	2.70



### DIN 90° WELDING ELBOW

Size		Ref.	A	B	Net. W. (#)
Inch	mm x Wall thk				
0.39"	10x1.5	101010	26	12	0.06
0.59"	15x1.5	101015	35	18	0.08
0.79"	20x1.5	101020	40	22	0.11
0.98"	25x1.5	101025	50	28	0.17
1.26"	32x1.5	101032	55	34	0.23
1.58"	40x1.5	101040	60	40	0.32
1.97"	50x1.5	101050	70	52	0.41
2.56"	65x2.0	101065	89	70	0.87
3.15"	80x2.0	101080	90	85	1.15
3.94"	100x2.0	1010100	100	104	1.59
4.92"	125x2.0	1010125	125	127	3.45
5.91"	150x2.0	1010150	150	154	5.47



### DIN WELDING TEE

Size		Ref.	A	B	Net. W. (#)
Inch	mm x Wall thk				
0.39"	10x1.5	105010	26	12	0.08
0.59"	15x1.5	105015	35	18	0.12
0.79"	20x1.5	105020	40	22	0.17
0.98"	25x1.5	105025	50	28	0.27
1.26"	32x1.5	105032	55	34	0.35
1.58"	40x1.5	105040	60	40	0.44
1.97"	50x1.5	105050	70	52	0.65
2.56"	65x2.0	105065	89	70	1.33
3.15"	80x2.0	105080	90	85	1.80
3.94"	100x2.0	1050100	100	104	2.38
4.92"	125x2.0	1050125	125	127	4.17
5.91"	150x2.0	1050150	150	154	4.92

\* Add "4" at the end of the ref. code for 304L Stainless Steel  
 \* Add "6" at the end of the ref. code for 316L Stainless Steel  
 \* Net weight in pounds.

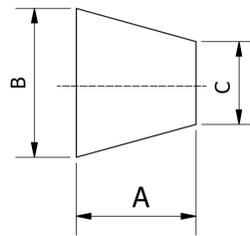


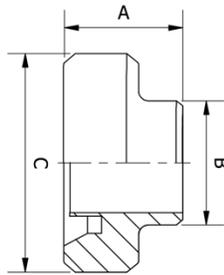
# TRYNOX

# DIN

### DIN CONCENTRIC REDUCER

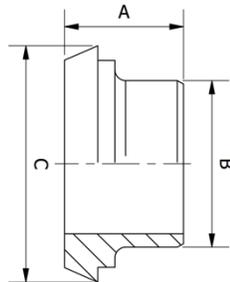
Size		Ref.	A	B	C	Net. W. (#)
Inch	mm					
0.59/0.39"	15/10	110001	18	18	12	0.03
0.79/0.59"	20/15	110003	24	22	18	0.02
0.98/0.59"	25/15	110005	27	28		0.02
0.98/0.79"	25/20	110006	28		22	0.05
1.26/0.79"	32/20	110008	29	34		0.05
1.26/0.98"	32/25	110009	30	40	28	0.05
1.58/0.79"	40/20	110012	34		22	0.09
1.58/0.98"	40/25	110013	34	52	28	0.06
1.58/1.26"	40/32	110014	34		34	0.05
1.97/0.98"	50/25	110017	44	52	28	0.17
1.97/1.26"	50/32	110018	45		34	0.11
1.97/1.58"	50/40	110019	45	70	40	0.08
2.56/0.08"	65/25	110020	51		70	28
2.56/1.26"	65/32	110021	51	34		0.30
2.56/1.58"	65/40	110022	56	70	40	0.21
2.56/1.58"	65/50	110023	45		34	0.21
3.15/1.58"	80/40	110026	80	85	40	0.57
3.15/1.97"	80/50	110027	69		52	0.35
3.15/2.56"	80/65	110028	48	85	70	0.23
3.94/1.97"	100/50	110032	90		52	0.83
3.94/2.56"	100/65	110033	78	104	70	0.45
3.94/3.15"	100/80	110034	55		85	0.33
4.92/3.94"	125/100	110036	75	154	76	0.92
5.91/3.94"	150/100	110038	90		104	1.41
5.91/4.92"	150/25	110039	45	204	129	1.69
7.87/5.91"	200/150	110042	90		154	2.17





### DIN WELDING MALE

Size		Ref.	A	B	C	Net. W. (#)
Inch	mm					
0.39"	10	202010	10	15	21	0.08
0.59"	15	202015	16	21	21	0.11
0.79"	20	202020	20	25	24	0.18
0.98"	25	202025	26	31	29	0.23
1.26"	32	202032	32	37	32	0.29
1.58"	40	202040	38	43	33	0.38
1.97"	50	202050	50	55	35	0.53
2.56"	65	202065	66	72	40	0.80
3.15"	80	202080	81	87	45	1.24
3.94"	100	2020100	100	106	54	1.59
4.92"	125	2020125	125	132	46	2.35
5.91"	150	2020150	150	157	50	4.03



### DIN WELDING LINER

Size		Ref.	A	B	C	Net. W. (#)
Inch	mm					
0.39"	10	201010	10	15	17	0.05
0.59"	15	201015	16	21	17	0.08
0.79"	20	201020	20	25	18	0.12
0.98"	25	201025	26	31	22	0.20
1.26"	32	201032	32	37	25	0.23
1.58"	40	201040	38	43	26	0.29
1.97"	50	201050	50	55	28	0.35
2.56"	65	201065	66	72	32	0.62
3.15"	80	201080	81	87	37	0.83
3.94"	100	2010100	100	106	44	1.23
4.92"	125	2010125	125	132	34	1.65
5.91"	150	2010150	150	157	37	2.38

\* Add "4" at the end of the ref. code for 304L Stainless Steel

\* Add "6" at the end of the ref. code for 316L Stainless Steel

\* Net weight in pounds.

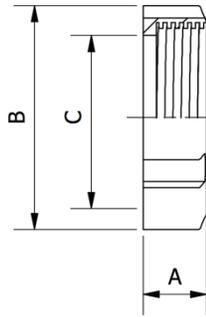


# TRYNOX

# DIN

## DIN ROUND NUT

Size		Ref.	A	B	C	Net. W. (#)
Inch	mm					
0.39"	10	203010	18	38	19	0.17
0.59"	15	203015	18	44	25	0.18
0.79"	20	203020	20	54	31	0.29
0.98"	25	203025	21	63	36	0.38
1.26"	32	203032	21	70	42	0.45
1.58"	40	203040	21	78	49	0.53
1.97"	50	203050	22	92	62	0.70
2.56"	65	203065	25	112	80	1.20
3.15"	80	203080	29	127	94	1.60
3.94"	100	2030100	31	148	115	1.90
4.92"	125	2030125	35	178	138	3.10
5.91"	150	2030150	41	210	164	5.20



## DIN GASKET

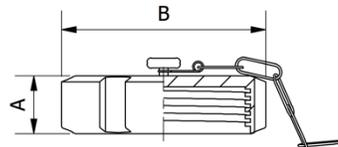
Size		Ref.	Net. W. (#)			
Inch	mm		Viton	EPDM	Buna	Silicone
0.39"	10	220010?	0.003	0.002	0.003	0.003
0.59"	15	220015?	0.004	0.004	0.004	0.004
0.79"	20	220020?	0.007	0.005	0.007	0.007
0.98"	25	220025?	0.008	0.006	0.008	0.006
1.26"	32	220032?	0.02	0.01	0.02	0.02
1.58"	40	220040?	0.02	0.02	0.02	0.02
1.97"	50	220050?	0.02	0.02	0.02	0.02
2.56"	65	220065?	0.03	0.02	0.03	0.02
3.15"	80	220080?	0.03	0.02	0.03	0.03
3.94"	100	2200100?	0.03	0.03	0.03	0.03
4.92"	125	2200125?	0.05	0.05	0.05	0.05
5.91"	150	2200150?	0.05	0.05	0.05	0.05



**NOTE:** Substitute the question mark ("?) at the reference to "B" for Buna, to "E" for EPDM. To "V" for Viton, to "T" for Teflon, to "S" for Silicone and "PV" for gasket envelop Teflon/Viton.

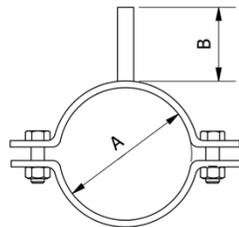
[www.trynox.com](http://www.trynox.com)

\* Add "4" at the end of the ref. code for 304L Stainless Steel  
 \* Add "6" at the end of the ref. code for 316L Stainless Steel  
 \* Net weight in pounds.



### DIN BLIND NUT WITH CHAIN

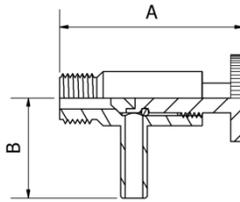
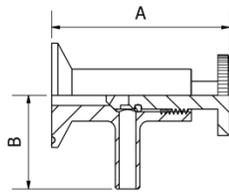
Size		Ref.	A	B	Net. W. (#)
Inch	mm				
0.39"	10	230010	18	38	0.21
0.59"	15	230015	18	44	0.26
0.79"	20	230020	20	54	0.39
0.98"	25	230025	21	63	0.47
1.26"	32	230032	21	70	0.56
1.58"	40	230040	21	78	0.69
1.97"	50	230050	22	92	0.90
2.56"	65	230065	25	112	1.50
3.15"	80	230080	29	127	2.30
3.94"	100	230100	31	148	2.50



### DIN PIPE HANGER

Size		Ref.	A	B	Net. W. (#)
Inch	mm				
0.79"	20	100020	22	53.5	0.23
0.98"	25	100025	28		0.24
1.26"	32	100032	34		0.26
1.58"	40	100040	40		0.29
1.97"	50	100050	52		0.35
2.56"	65	100065	70		0.41
3.15"	80	100080	85		0.53
3.94"	100	1000100	104		0.65
4.92"	125	1000125	129		0.74
5.91"	150	1000150	154		0.80

\* Add "4" at the end of the ref. code for 304L Stainless Steel  
 \* Add "6" at the end of the ref. code for 316L Stainless Steel  
 \* Net weight in pounds.



### CLAMP SAMPLE COOK VALVE

Size	Ref.	A		B		Net. W. (#)
		Inch	mm	Inch	mm	
1"-1.5" Clamp	TSCVC1.5	3.5"	89	1-3/4"	44.5	0.81
0.5" NPT	TSCVM0.5	3-1/4"	82.5			0.625

\* Add "4" at the end of the ref. code for 304L Stainless Steel

\* Add "6" at the end of the ref. code for 316L Stainless Steel

\* Net weight in pounds.



# TRYNOX

# VALVE

## SINGLE SEAT DIVERT VALVE

EXAMPLE:

T D V A T T C 1.5 4 E A S C 7

**BASIC REFERENCE NUMBER**  
Single seat valve = TDV

**STANDARD**  
3A = A  
ISO = I  
SMS = S

**CONFIGURATION**  
L, LL, T, TT, LT, TL

**CONNECTION ENDS**  
Clamp = C  
Butt Weld = W

**SIZE**  
1.5" = 1.5  
2" = 2.0  
2.5" = 2.5  
3" = 3.0

**MATERIAL**  
4 = 304  
6 = 316L

**ACTUATION**  
Pneumatic:  
-AS = air/spring  
-AA = air/air

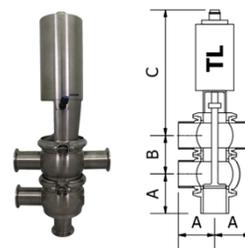
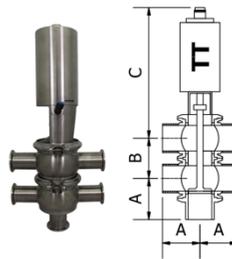
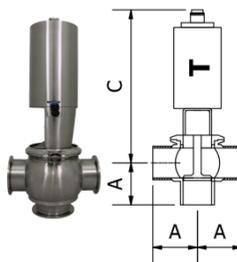
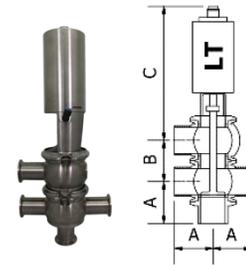
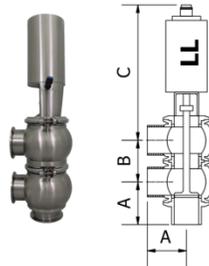
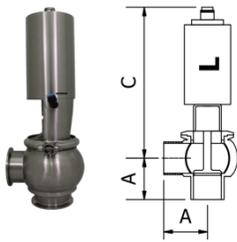
**GASKET**  
B = Buna  
E = EPDM  
V = Viton

**INSIDE FINISHING**  
7 = 32 μ-in (0.8 mm)  
4 = 20 μ-in (0.5 mm)

**SHUTTER POSITION**  
O = Normally Open  
C = Normally Close

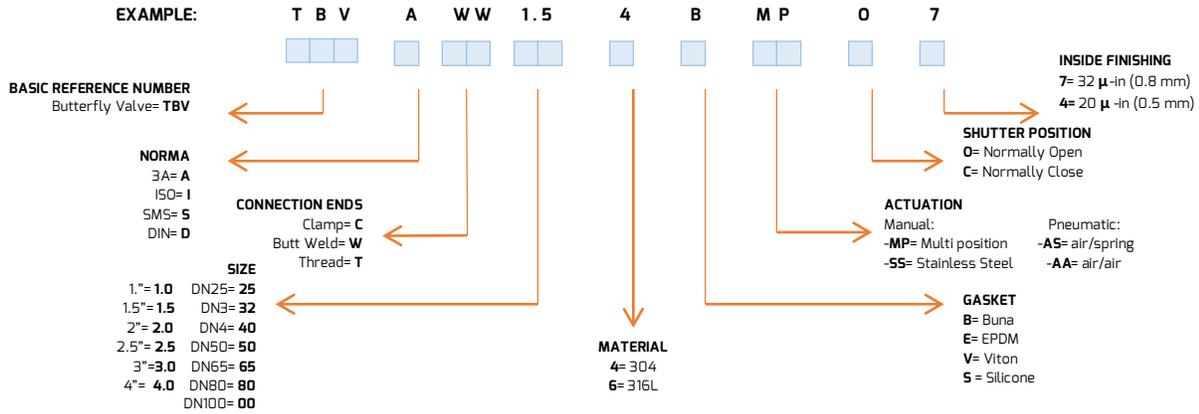
Size		Ref.	A		B		C		Net. W. (#)
Inch	mm		Inch	mm	Inch	mm	Inch	mm	
1.5"	38.1	TDVA1.5	2.75"	70	3.14"	80	11.2"	285	16
2"	50.8	TDVA2.0			3.54"	90			16.5
2.5"	63.5	TDVA2.5	3"	76.1	4.48"	114	11.8"	300	19
3"	76.1	TDVA3.0	3.5"	88.9	4.56"	116			21.5

### CONFIGURATION



[www.trynox.com](http://www.trynox.com)

## BUTTERFLY VALVE

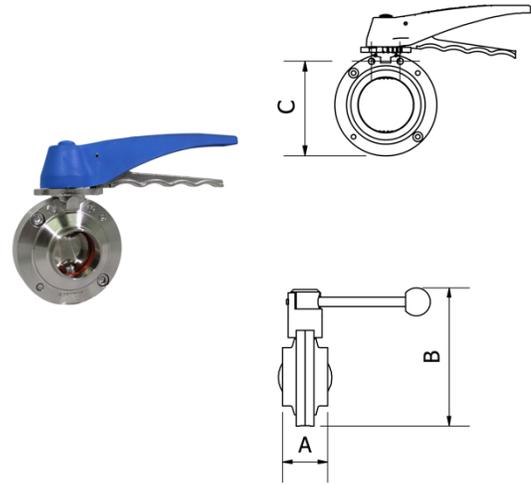
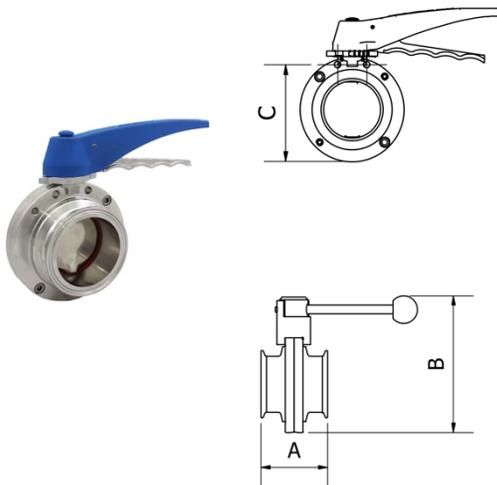


### 3A/ SMS / CLAMP

Size		Ref.	A (CLAMP)		A (3A /SMS)		B		C		Net. W. (#)
Inch	mm		Inch	mm	Inch	mm	Inch	mm	Inch	mm	
1"	25.4	TBV1.0	2.52"	64	1.58"	40	4.62"	117.25	2.40	60.9	2
1.5"	38.1	TBV1.5	2.84"	72	1.97"	50	5.28"	134	2.95"	75.05	2
2"	50.8	TBV2.0					5.57"	141.4	3.5"	88.9	2.60
2.5"	63.5	TBV2.5	3"	76			6.22"	158	4.02"	102.3	2.90
3"	76.1	TBV3.0					6.61"	167.9	4.57"	116.1	3.40
4"	101.6	TBV4.0	4.10"	104	2.52"	64	7.54"	191.5	5.43"	138	5.40

### DIN

Size	Ref.	A	B	C	Net. W. (#)
mm					
25	TBVDWW25	40	117.25	87	2.4
32	TBVDWW32	42	134	92	2.8
40	TBVDWW40	50	141.4	97	2.7
50	TBVDWW50	50	150	110	3.7
65	TBVDWW65	50	167.9	127	4.4
80	TBVDWW80	60	175	142	5.8
100	TBVDWW100	64	191.5	162	7.4

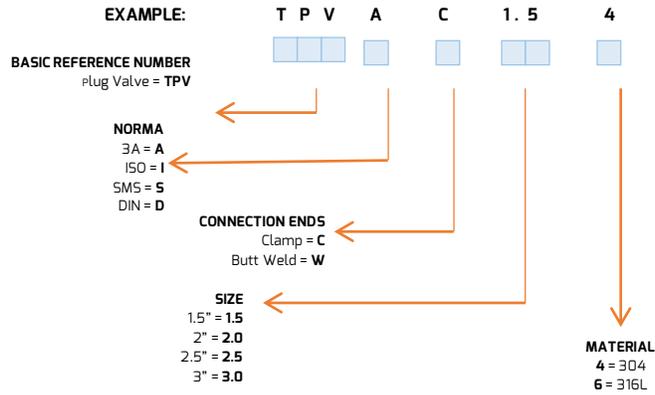




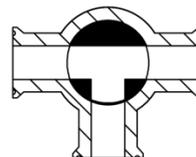
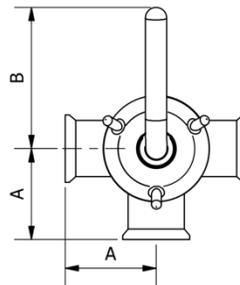
# TRYNOX

# VALVE

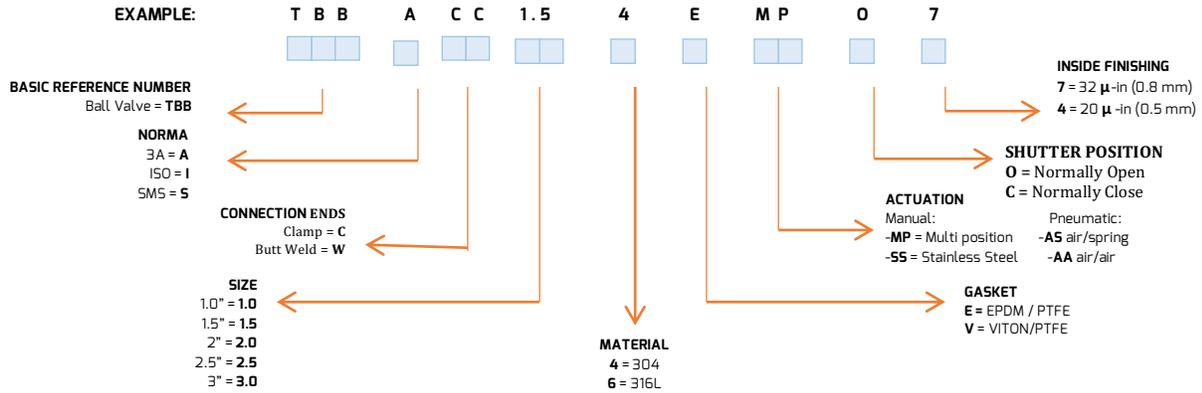
## PLUG VALVE



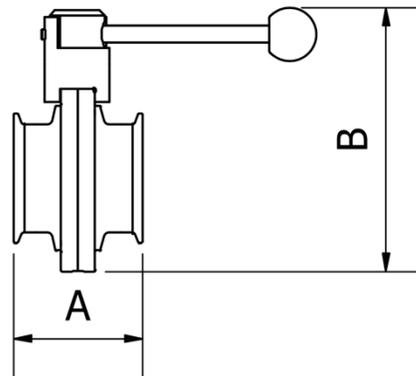
Size		Ref.	A		B		Net. W.(#)
Inch	mm		Inch	mm	Inch	mm	
1"	25.4	TPV1.0	2-1/4"	57	3-1/4"	82.5	3.30
1.5"	38.1	TPV1.5	2-3/4"	70	5"	127	5.60
2"	50.8	TPV2.0	3-1/8"	80	6"	152	9.20
2.5"	63.5	TPV2.5	4-1/8"	105			19.40
3"	76.1	TPV3.0	4-3/8"	111	7"	178	23.20



## SANITARY BALL VALVE



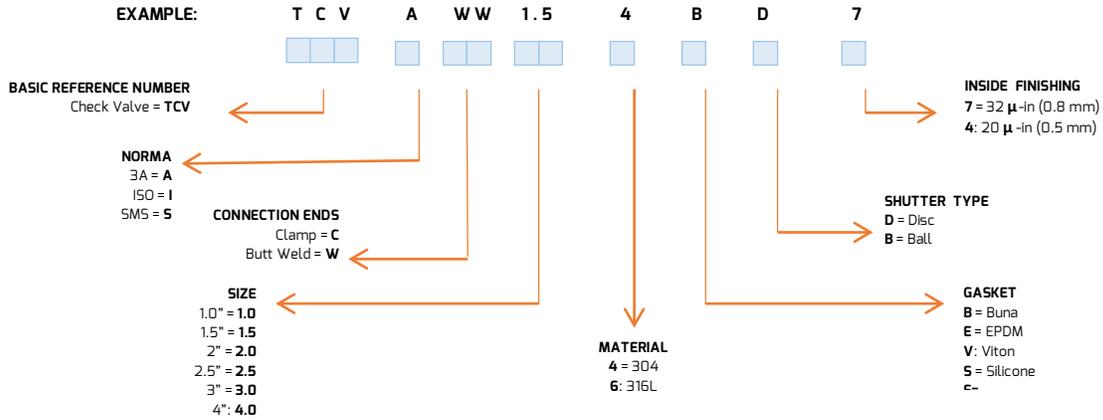
Size		Ref.	A		B		Net. W. (#)
Inch	mm		Inch	mm	Inch	mm	
1"	25.4	TBB1.0	3"	76.2	3-1/4"	82.5	3.80
1.5"	38.1	TBB1.5	3-1/2"	88.9	3-1/2"	88.9	5.10
2"	50.8	TBB2.0	4"	101	4"	101	6.20
2.5"	63.5	TBB2.5	5"	127	4-1/2"	114	9.40
3"	76.1	TBB3.0	5-3/4"	146	5"	127	13.80





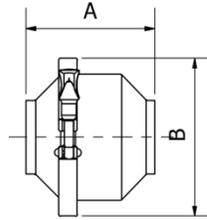
# TRYNOX VALVE

## CHECK VALVE



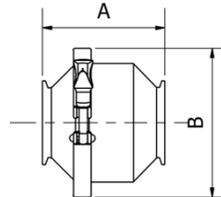
### 3A / SMS

Size		Ref.	A		B		Net. W. (#)
Inch	mm		Inch	mm	Inch	mm	
1"	25.4	TCV1.0	3"	76	3-1/2"	89	1.90
1.5"	38.1	TCV1.5			3-1/2"	89	1.90
2"	50.8	TCV2.0	3-1/2"	89	4-1/2"	115	2.90
2.5"	63.5	TCV2.5			4-5/8"	117	4.35
3"	76.1	TCV3.0	4"	101	5-5/8"	142	4.40
4"	101.6	TCV4.0	6"	152	6-1/8"	155	8.50

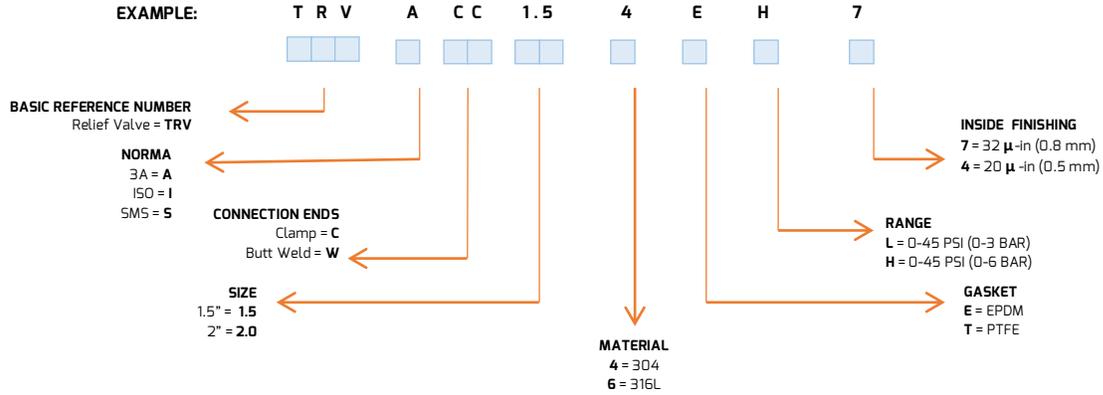


### CLAMP

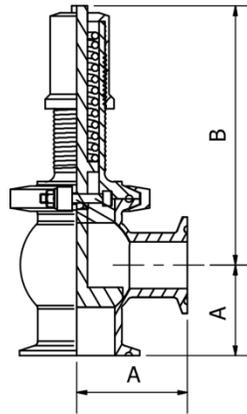
Size		Ref.	A		B		Net. W. (#)
Inch	mm		Inch	mm	Inch	mm	
1"	25.4	TCV1.0	3-1/16"	93	3-1/2"	89	2.01
1.5"	38.1	TCV1.5	3-1/16"	93	3-1/2"	89	2.01
2"	50.8	TCV2.0	4-1/16"	103	4"	102	3.04
2.5"	63.5	TCV2.5	4-1/8"	105	4-1/2"	115	4.55
3"	76.1	TCV3.0	4-3/8"	112	5-1/8"	130	4.61
4"	101.6	TCV4.0	5"	127	6-1/16"	170	8.88



## RELIEF VALVE



Size		Ref.	A		B		Net. W. (#)
Inch	mm		Inch	mm	Inch	mm	
1.5"	38.1	TRV1.5	3"	76.2	9"	230	4.90
2.0"	50.8	TRV2.0			11"	280	7.20





# TRYNOX VALVE

## DIAPHRAGM VALVE

EXAMPLE:

T A V A 3 W C 1.5 6 E M M C 7

**BASIC REFERENCE NUMBER**  
Diaphragm valve = TAV

**STANDARD**

3A = A

ISO = I

SMS = 5

**CONFIGURATION**

Shutoff = 50

3 way = 3W

Branch way = BW

**CONNECTION ENDS**

Clamp = C

Butt Weld = W

**SIZE**

1/2" = 50    2" = 2.0    1"x3/4" = 03

3/4" = 75    2.5" = 2.5    1.5"x1" = 06

1" = 1.0    3" = 3.0    2"x1" = 11

1.5" = 1.5

**INSIDE FINISHING**

7 = 32 μ-in (0.8 mm)

4 = 20 μ-in (0.5 mm)

**SHUTTER POSITION**

O = Normally Open

C = Normally Close

**ACTUATION**

MM = Microneumatic

**GASKET**

E = EPDM / PTFE

V = Viton / PTFE

**MATERIAL**

4 = 304

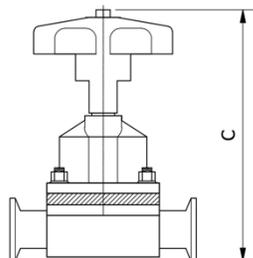
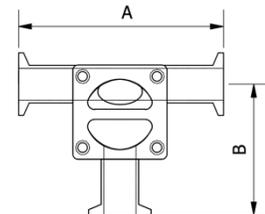
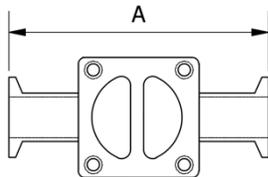
6 = 316L

### SHUTOFF VALVE

Size		Ref.	A		C		Net. W. (#)
Inch	mm		Inch	mm	Inch	mm	
0.5"	12.7	TAV50	3-7/8"	98.4	4"	101.6	1.40
0.75"	19.0	TAV75	4-1/8"	104.7			1.30
1"	25.4	TAV1.0	5-1/8"	130			2.30

### BRANCH VALVE

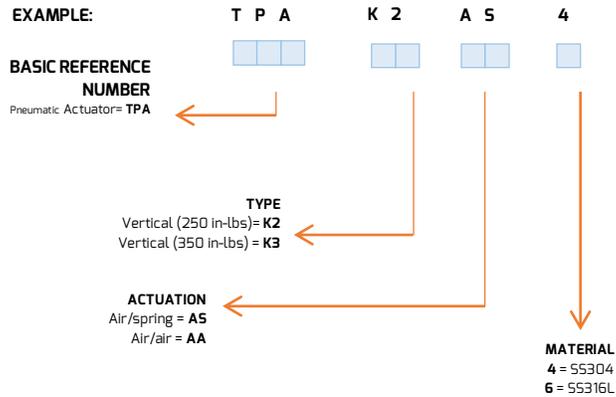
Size		Ref.	A		B		C		Net. W. (#)
Inch	mm		Inch	Mm	Inch	mm	Inch	mm	
1"x3/4"	25.4x19.0	TAV03	5"	127	4.38"	111	4"	101.6	3.7
1.5"x1"	38.1x25.4	TAV06	6.5"	165	4.56"	116			4.1
2"x1.5"	50.8x38.1	TAV10	7.5"	190	5.25"	133			7.9



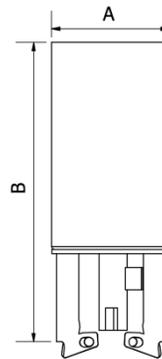
# VALVE



## SANITARY PNEUMATIC ACTUATOR



Size	TORQUE	A		B		RANGE		Net. W. (#)
		Inch	mm	Inch	mm	TBV	TBB	
K2	350	3-1/4"	82.5	9"	229	1"-3"	1"-2"	7.30
K3	450	4-1/4"	108	10"	250	DN80-4"	2-1/2"-3"	11.40



# TUBING



## TUBING

EXAMPLE:

T S T    D    4 0    4 L    1.5    N    N

BASIC REFERENCE NUMBER  
Sanitary Tubing = TST

STANDARD  
3A = A  
DIN = D  
SMS = S

SIZE  
1.0" = 1.0    25  
1.5" = 1.5    32  
2" = 2.0    40  
2.5" = 2.5    50  
3" = 3.0    65  
4" = 4.0    80  
              100  
              125  
              150

MATERIAL

4 = 304  
6 = 316

MATERIAL

L = Low carbon  
Leave it blank for standard

OUTSIDE FINISHING

7 = 32  $\mu$ -in (0.8  $\mu$ m)  
4 = 20  $\mu$ -in (0.5  $\mu$ m)  
N = Brushed

INSIDE FINISHING

7 = 32  $\mu$ -in (0.8  $\mu$ m)  
4 = 20  $\mu$ -in (0.5  $\mu$ m)  
N = 0.8 Ra

WALL THICKNESS

1.5 = 1.5mm  
1.6 = 1.6mm  
2.0 = 2.0mm

### SANITARY TUBE (ASTM A-270)

#### SMS

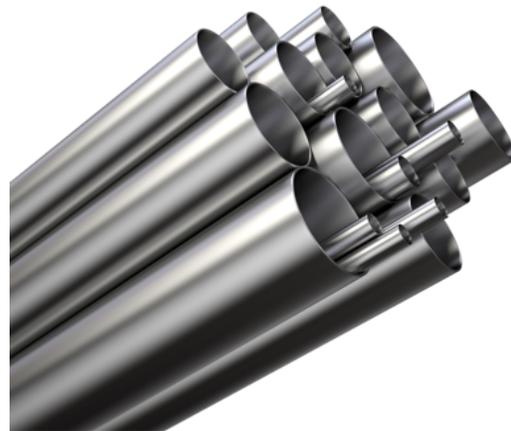
Size		Ref.	WALL THK		Net. W.	
Inch	mm		Inch	mm	Lb/ft	Kg/mts
1"	25.4	TSPA25415	0.06"	1.5	12.2	5,533
1 1/2"	38.1	TSPA38012			18.48	8,382
2"	50.8	TSPA50815			24.89	11,289
2 1/2"	63.5	TSPA63515	0.065"	1.65	31.3	14,197
3"	76.15	TSPA76116			41.23	18,701
4"	101.6	TSPA10162			67.04	30,408

#### 3A

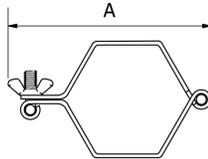
Size		Ref.	WALL THK		Net. W.	
Inch	mm		Inch	mm	Lb/ft	Kg/mts
1"	25.4	TSPA25416	0.065"	1.65	13.17	5,973
1.5"	38.1	TSPA38116			20.03	9,085
2"	50.8	TSPA50816			27.28	12,373
2.5"	63.5	TSPA63516			34.27	15,544
3"	76.1	TSPA76116			41.23	18,701
4"	101.6	TSPA10162			67.04	30,408

### DIN SANITARY TUBE (DIN 11850)

Size		Ref.	WALL	Net. W.	
Inch	mm			Lb/ft	Kg/mts
0.98"	25	TSPD2815	1.5mm	12.2	5,533
1.26"	32	TSPD3415		16.46	7,466
1.58"	40	TSPD4015		19.72	8,944
1.97"	50	TSPD5215		25.7	11,657
2.56"	65	TSPD702		46.1	20,910
3.15"	80	TSPD852	2.0mm	56.3	25,537
3.94"	100	TSPD1040		69.09	31,338
4.92"	125	TSPD1292		86.09	39,049
5.91"	150	TSPD1542		102.95	46,697

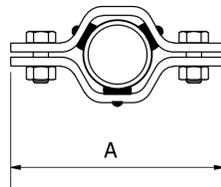


# ACCESSORIES



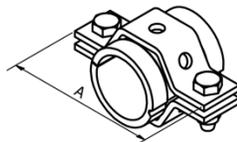
## SMS HINGED PIPE HANGER

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1"	25.4	T26H1.0	2.36"	60	0.20
1.5"	38.1	T26H1.5	2.91"	74	0.23
2"	50.8	T26H2.0	3.54"	90	0.29
2.5"	63.5	T26H2.5	4.13"	105	0.33
3"	76.1	T26H3.0	4.69"	119	0.38
4"	101.6	T26H4.0	5.71"	145	0.47



## 3A HEX. PIPE HANGER/RUBBER

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1"	25.4	T26R1.0	3"	76.1	0.32
1.5"	38.1	T26R1.5	3-1/2"	88.9	0.39
2"	50.8	T26R2.0	4-1/2"	114.3	0.47
2.5"	63.5	T26R2.5	5"	127	0.59
3"	76.1	T26R3.0	5-1/2"	139.7	0.56
4"	101.6	T26R4.0	6-3/4"	171.45	0.72



## 3A HEX PIPE HANGER/THERMOPLASTIC

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
1"	25.4	T26TH1.0	3"	76.1	0.32
1.5"	38.1	T26TH1.5	3-1/2"	88.9	0.39
2"	50.8	T26TH2.0	4-1/2"	114.3	0.47
2.5"	63.5	T26TH2.5	5"	127	0.59
3"	76.1	T26TH3.0	5-1/2"	139.7	0.56
4"	101.6	T26TH4.0	6-3/4"	171.45	0.72

\* Add "4" at the end of the ref. code for 304L Stainless Steel  
 \* Add "6" at the end of the ref. code for 316L Stainless Steel  
 \* Net weight in pounds.

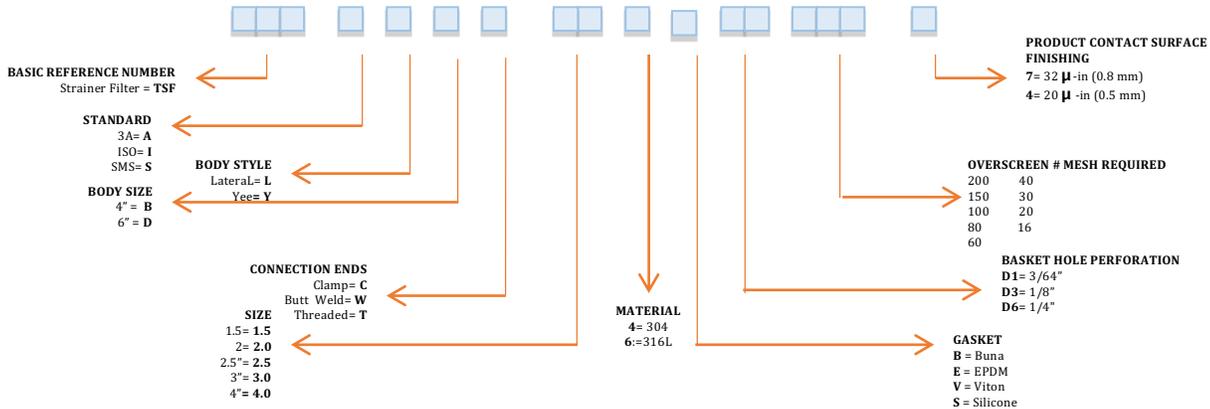


# TRYNOX

# ACCESSORIES

## STRAINER FILTER

**EXAMPLE:** T S F A L B C 1.5 4 B D 1 2 0 0 7

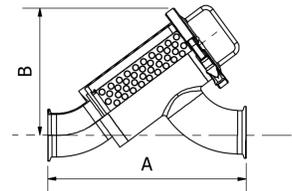
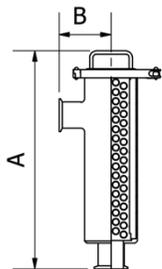


### L-TYPE

Size		Ref.	A		B		Net. W. (#)
Inch	mm		Inch	mm	Inch	mm	
1.5"	38.1	TSFAL1.5					7.10
2"	50.8	TSFAL2.0	17.28"	430	4.09"	104	7.40
2.5"	63.5	TSFAL2.5					7.30
3"	76.1	TSFAL3.0	22.44"	570	5.19"	132	8.7

### Y-TYPE

Size		Ref.	A		B		Net. W. (#)
Inch	mm		Inch	mm	Inch	mm	
1.5"	38.1	TSFAY1.5	7.87	200	5.71	145	3.57
2"	50.8	TSFAY 2.0	8.86	225	6.30	160	6.10
2.5"	63.5	TSFAY 2.5			7.68	195	6.30
3"	76.1	TSFAY 3.0	9.25	235	8.27	210	6.70



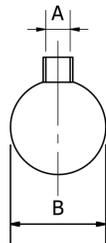
# ACCESSORIES



## STATIONARY SPRAY BALL

Ref.	A		B		Hole		Net. W (#)
	Inch	mm	Inch	mm	Inch	mm	
TSB10	1.0"	26	2"	50	.065"	1.6	0.18
TSB13	1.5"	38	2-1/2"	63	.098"	2.5	0.35
TSB15	1.5"	39	3"	76			0.45
TSB16	2.0"	52	3"	76			0.56
TSB20	2.0"	52	4"	101.6			0.70

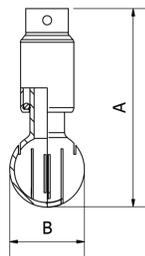
Ref.	PSI / Barg	GPM / M <sup>3</sup> PH	Max. Tank. Feet / mts
TSB10	14.7 / 1	32 / 7.25	14.14 / 4.31
	52.89 / 3.5	60 / 13.57	49.5 / 15.10
TSB13	14.7 / 1	72 / 16.40	6 / 1.83
	52.89 / 3.5	125 / 28.38	21 / 6.45
TSB15	14.7 / 1	76.5 / 17.39	8 / 2.40
	52.89 / 3.5	145 / 32.94	27.5 / 8.37
TSB16	14.7 / 1	80 / 18.39	10 / 3.10
	52.89 / 3.5	150 / 34.28	35.4 / 10.81
TSB20	14.7 / 1	107 / 24.32	6.75 / 2.06
	52.89 / 3.5	200 / 45.39	23.5 / 7.19



## ROTATORY CLEANING BALL

Size	Ref.	A	B	C	Net. W. (#)
1"	TSBR1.0	140	55	26	0.60
1.5"	TSBR1.5	150		40	0.80
2"	TSBR2.0	190	76	64	2.30
2.5"	TSBR2.5			51.1	1.60

Ref.	PSI / Barg	GPM / M <sup>3</sup> PH	Max. Tank. Feet / mts
TSBR1.0	14.7 / 1	20 / 4.5	11.2 / 3.4
	29.4 / 2	31 / 7	13.2 / 4
TSBR1.5	14.7 / 1	20 / 4.5	11.2 / 3.4
	29.4 / 2	31 / 7	13.2 / 4
TSBR2.0	14.7 / 1	31 / 7	16.5 / 5
	29.4 / 2	44 / 10	20 / 6
TSBR2.5	14.7 / 1	31 / 7	16.5 / 5
	29.4 / 2	44 / 10	20 / 6



\* Add "4" at the end of the ref. code for 304L Stainless Steel  
 \* Add "6" at the end of the ref. code for 316L Stainless Steel  
 \* Net weight in pounds.

[www.trynox.com](http://www.trynox.com)

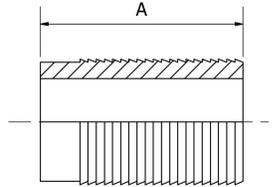


# TRYNOX

# ACCESSORIES

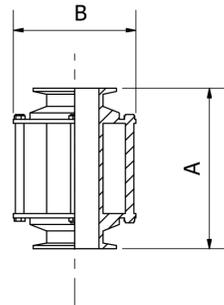
## HOSE ADAPTER

Size		Ref.	A		Net. W (#)
Inch	mm		Inch	mm	
0.5	12.7	TRHAW0.5	2"	50.8	0.05
0.75	19.05	TRHAW0.75			0.12
1"	25.4	TRHAW1.0	3-1/2"	88.9	0.24
1.5"	38.1	TRHAW1.5			0.33
2"	50.8	TRHAW2.0			0.35
2.5"	63.5	TRHAW2.5	4"	101.6	0.45
3"	76.1	TRHAW3.0			0.65
4"	101.6	TRHAW4.0			0.93



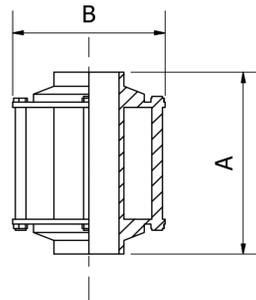
## CLAMP TUBULAR SIGHT GLASS

Size		Ref.	A		B		Net. W (#)
Inch	mm		Inch	mm	Inch	mm	
1"	25.4	TSGAC1.0	5.91"	150	7.09"	80	2.70
1.5"	38.1	TSGAC1.5	6.10"	155	3.94"	100	2.60
2"	50.8	TSGAC2.0	6.50"	165			4.72"
2.5"	63.5	TSGAC2.5			6.70"	170	5.12"
3"	76.1	TSGAC3.0	6.89"	175	5.98"	152	5.40
4"	101.6	TSGAC4.0					6.90



## WELD TUBULAR SIGHT GLASS

Size		Ref.	A		B		Net. W (#)
Inch	mm		Inch	mm	Inch	mm	
1"	25.4	TSGAW1.0	5.51"	140	3.15	80	2.30
1.5"	38.1	TSGAW1.5			3.94	100	2.90
2"	50.8	TSGAW2.0	5.71"	145	4.72	120	4.80
2.5"	63.5	TSGAW2.5			5.12	130	5.60
3"	76.1	TSGAW3.0			5.98	152	6.00
4"	101.6	TSGAW4.0					



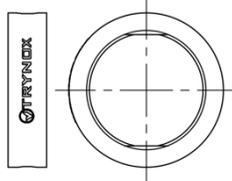
\* Add "4" at the end of the ref. code for 304L Stainless Steel

\* Add "6" at the end of the ref. code for 316L Stainless Steel

\* Net weight in pounds.

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# Spare Parts



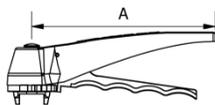
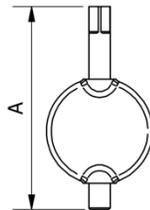
## BUTTERFLY VALVE SEAL

Size DIN 3A	Ref.	Net. W (#)			
		Buna	EPDM	Viton	Silicone
25 1"	31025?	0.047	0.050	0.048	0.047
32 ---	31032?				
40 1.5"	31040?	0.049	0.053	1.093	0.050
50 2"	31050?	1.078	1.021	1.171	1.093
--- 2.5"	31063?	1.177	1.055	2.248	1.176
65 3"	31065?				
80 ---	31080?	1.229	2.019	3.234	1.230
100 4"	31100?	2.248	2.032	4.217	2.246

**NOTE:** Substitute the question mark (" ? ") at the reference to "B" for Buna, to "E" for EPDM, to "S" for Silicone and to "V" for Viton.

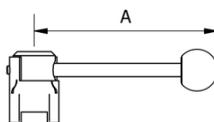
## BUTTERFLY VALVE DISCS

Size	Ref.	A	Net. W (#)
25-1"	TDISC25	81	0.11
32"	TDISC32	87	0.18
40-1.5"	TDISC40	95	0.22
50-2"	TDISC50	112	0.30
2.5"	TDISC63	114	0.36
65-3"	TDISC65	129	0.53
80"	TDISC80	149	0.76
100-4"	TDISC100	165	1.20



## BUTTERFLY VALVE ABS HANDLE

Size	Ref.	A		Net. W (#)
		Inch	Mm	
25-1" AT 100-4	TABS254	5.91"	150	0.55



## BUTTERFLY VALVES SS HANDLE

Size	Ref.	A		Net. W (#)
		Inch	mm	
25-1" AT 3"	TSSH254	5.91"	150	0.89
80 AT 100-4"	TSSH324			

- \* Add "4" at the end of the ref. code for 304L Stainless Steel
- \* Add "6" at the end of the ref. code for 316L Stainless Steel
- \* Net weight in pounds.

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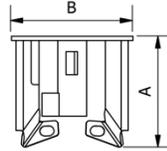


# TRYNOX

# Spare Parts

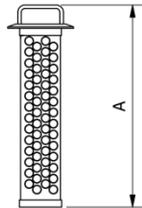
### PNEUMATIC ACTUATOR HOLDER

Size	Ref.	A		B		C		Net. W. (#)
		Inch	mm	Inch	mm	Inch	mm	
1-4"	THDA25	2.17"	55	4.33"	110	8.82"	224	0.8



### L TYPE STRAINER

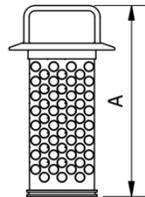
Size	Hole		Ref.	A		Net. W (#)
	Inch	mm		Inch	mm	
1-3"	3/64"	1.1	TSFLBD1	14.17"	360	2.5
	1/8"	3.1	TSFLBD2			2.5
	1/4"	6.3	TSFLBD3			2.5
4"	3/64"	1.1	TSFLDD1	14.17"	360	3.0
	1/8"	3.1	TSFLDD2			3.0
	1/4"	6.3	TSFLDD3			3.0



\*Other hole diameters available, upon request please contact us.

### Y TYPE STRAINER

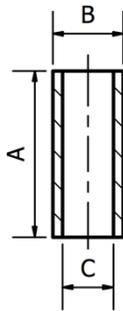
Size	Thk		Ref.	A		Net. W (#)
	Inch	mm		Inch	mm	
1.5"-2"	3/64"	1.1	TSFYBD1	8.07"	205	1.10
	1/8"	3.2	TSFYBD2			1.10
	1/4"	6.3	TSFYBD3			8.11"
2.5"-3"	3/64"	3.1	TSFYDD1	8.07"	205	1.90
	1/8"	3.1	TSFYDD2			1.90
	1/4"	6.3	TSFYDD3			8.11"



- \* Add "4" at the end of the ref. code for 304L Stainless Steel
- \* Add "6" at the end of the ref. code for 316L Stainless Steel
- \* Net weight in pounds.

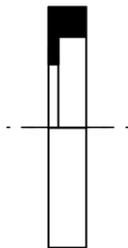
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# Spare Parts



## TUBULAR GLASS

Size		Ref.	A	B	C	Net. W (#)
Inch	mm					
1"	25.4	TGT1.0	3.95"	1.2"	0.83"	0.17
1.5"	38.1	TGT 1.5		1.73"	1.34"	0.30
2"	50.8	TGT 2.0		2.36"	1.9"	0.45
2.5"	63.5	TGT 2.5		2.76"	2.36"	0.50
3"	76.1	TGT 3.0		3.3"	2.95"	0.60
4"	101.6	TGT 4.0		4.73"	3.95"	1.70



## TUBULAR SIGTH GLASS GASKET

Size		Ref.	Net. W. (#)
Inch	mm		SILICONE
1"	25.4	TSPGTS1.0?	0.17
1.5"	38.1	TSPGTS1.5?	0.3
2"	50.8	TSPGTS2.0?	0.45
2.5"	63.5	TSPGTS2.5?	0.5
3"	76.1	TSPGTS3.0?	0.6
4"	101.6	TSPGTS4.0?	1.7

NOTE: Substitute the question mark ("?) at the reference to "S" for Silicone

\* Add "4" at the end of the ref. code for 304L Stainless Steel

\* Add "6" at the end of the ref. code for 316L Stainless Steel

\* Net weight in pounds.

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# Attachments



LIQUID	FORMULA	BUNA-N	EPDM	NEOPRENE	TEFLON	VITON	SILICONE
Acetic Acid 20%		C	A	X	A	X	
Acetone (Cvanohydrin)	(CH <sub>3</sub> ) <sub>2</sub> C(OH)CN	X	X	B	A	X	B
Acetone (Dimethyketone)	CH <sub>3</sub> COCH <sub>3</sub>	X	A	X	A	X	B
Ammonia Gas Hot		A		A	A	A	
Ammonia Gas Hot		C		B	A	X	
Animal Fats & Oils		A	B	C	A	A	
Animal Gelatin		A	A	A	A	A	
Aromatic Solvents		C	X	X	A	A	
Ascorbic Acid	C <sub>6</sub> H <sub>8</sub> O <sub>6</sub>				A	A	
Barbeque Sauce	Waters, oils, spices	A		A	A		
Beer	Water, carbonate	C	A	A	A	A	
Cane Juice	Sucrose, water	A		A	B		C
Carbon Dioxide	CO <sub>2</sub>	A	B	A	A	A	
Carbonated Beverages	CO <sub>2</sub> /H <sub>2</sub> O	A		A	A	A	
Catsup		A		C	A	A	
Caustic Soda		B	A	B	A	X	X
Chloric Acid	HClO <sub>3</sub>	X		A	A	B	
Chloric, Dry	Cl <sub>2</sub>	C		C	A	A	
Chloric, Wet	Cl <sub>2</sub> /H <sub>2</sub> O	C	X	X	A	A	C
Chocolate Syrup	Com syrup, water sugar	A		A	A		
Citric Acid	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub> ·H <sub>2</sub> O	B	A	A	A	A	C
Cod Liver (fish oil)	Glycerides, acids, esters	B		X	A	A	
Coffee	Fatty oils, acids, cellulose	A		A	A		
Corn Oil	Glycerides of fatty acids	A	C	C	A	A	
Detergent Solutions		A	A	A	A	A	
Ethyl Alcohol (Ethanol)	CH <sub>3</sub> CH <sub>2</sub> OH	A	A	A	A	B	
Ethylene Glycol	(CH <sub>2</sub> OH) <sub>2</sub>	A	A	A	A	A	C
Fruit Juices/ Pulpa/Wine	Water, sucrose	A		A	A	A	
Gasoline (Petrol)	Hydrocarbons	A	X	X	A	A	X
Gasoline (Unleaded)	C <sub>4</sub> to C <sub>12</sub> Hydrocarbons	X	X	X	A	A	X
Glucose (Corn Syrup)	C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>	A	A	A	A	A	B
Hydrochloric Acid 10%	HCl	B	A	B	A	A	
Hydrochloric Acid 30%	HCl	C	A	C	A	B	
Ice Cream		C	A			A	
Insecticides					A	A	
Isopropyl Alcohol	C <sub>3</sub> H <sub>8</sub> O	B	B	A	A	A	C
Jam		A		A			
Kerosene	Hydrocarbons	A	X	X	A	A	X
Lactic Acid	C <sub>4</sub> H <sub>6</sub> O <sub>5</sub>	B	A	B	A	A	
Lanolin							
Lemon Oil	Hydrocarbons			X	A	A	
Lime, Soda (Slaked lime)	CaO	B	A	B	A	A	C
Malic Acid	C <sub>4</sub> H <sub>6</sub> O <sub>5</sub>	B	X	C	A	A	
Malt Beverages		A		A	A	A	
Mavonnaise	Water, fats, oils	A		A	A	A	
Milk		B	A	A	A	A	B
Mine Water		A			A	A	
Mineral Oil	Hydrocarbons	A	X	X	A	A	
Molasses		A	A	A	A	A	
Mustard		C		A	A	X	
Nitric Acid 10%	HNO <sub>3</sub>	X	B	B	A	A	
Nitric Acid (Conc)	HNO <sub>3</sub>	X	X	X	A	B	
Nitrogen Tetroxide	N <sub>2</sub> O <sub>4</sub>	X	X	X	A	C	
Oleic Acid (Red oil)	C <sub>18</sub> H <sub>34</sub> O <sub>2</sub>	C	C	X	A	B	X
Oxygen	O	C			C		
Ozone	O <sub>3</sub>	X	A	B	A	A	
Palm Oil		A		X	A	A	
Petroleum (Crude oil)	Hydrocarbons	B	X	C	A	A	
Rum	Alcoholic liquors from	A	A	A	A	B	
Salt Water (Brine)	NaCl/H <sub>2</sub> O	A	A	A	A	A	
Sea Water		A	A	A	A	A	B
Sodium Nitrate (Chile)	NaNO <sub>3</sub>	C	A	B	A	A	X
Sodium Nitrite	NaNO <sub>2</sub>	A		X	A	A	
Sodium Sulfato	Na <sub>2</sub> SO <sub>4</sub>	A	A	B	A	A	
Soy Sauce	Fermented soya	A		A	A	A	
Steam					A		
Sugar Liquids		A	A	A	A	A	
Sulfuric Acid 10%	H <sub>2</sub> SO <sub>4</sub>	B	A	A	A	A	
Sulfuric Acid (Conc)	H <sub>2</sub> SO <sub>4</sub>	X	C	X	A	A	
Tomato Pulp & Juice		A			A		
Vainilla Extract	C <sub>6</sub> H <sub>4</sub> (CHO)(OCH <sub>3</sub> ) <sub>2</sub> (OH)	A		A	A	X	
Vegetable Juices		A		C	A		B
Vegetable Oils		B		C	A	A	
Vinegar (Dilute Acetic)		C	A	B	A	A	
Water		A			A		
Water Destilled	H <sub>2</sub> O	A	A	C	A	A	
Whiskey	Ethanol, esters, acids	B	A	A	A	A	B
Wines		A	A	A	A	B	B



DESCRIPTION	MANUFACTURING STANDARD	SS TYPE	INTERNAL FINISH
<b>Elbow</b>	3-A Standars/SMS	316L-304L	0,8 Ra
<b>Tee</b>	3-A Standars/SMS	316L-304L	0,8 Ra
<b>Reduction</b>	3-A Standars/SMS	316L	0,8 Ra
<b>Ferrule</b>	3-A Standars/SMS	316L	0,8 Ra
<b>Nute</b>	3-A Standars/SMS 1145	316L	0,8 Ra
<b>Union</b>	3-A Standars/SMS 1145	304L	0,8 Ra
<b>Holder</b>	3-A Standars/SMS 1145	316L	0,8 Ra
<b>Relief Valve</b>	3-A Standars/SMS	304L	0,8 Ra
<b>Butterfly Valve</b>	3-A Standars/SMS	316L	0,8 Ra
<b>Check Valve</b>	3-A Standars/SMS	316L - 304L	0,8 Ra
<b>Tubular Sight Glass</b>	3-A Standars/SMS	316L	0,8 Ra
<b>Hose Adapter</b>	3-A Standars/SMS	316L	0,8 Ra

DESCRIPTION	MANUFACTURING STANDARD	SS TYPE	INTERNAL FINISH
<b>Ferrule</b>	3-A Standars	316L	0,8 Ra
<b>E-Clamp</b>	3-A Standars	304L	Unpolished

DESCRIPTION	MANUFACTURING STANDARD	SS TYPE	INTERNAL FINISH
<b>Disc</b>	3-A Standars/SMS	316L	0,8 Ra
<b>Holder</b>	3-A Standars/SMS	304L	0,8 Ra
<b>Pneumatic Actuator</b>	3-A Standars/SMS	304L	0,8 Ra
<b>Spray Ball</b>	3-A Standars/SMS	316L	0,8 Ra
<b>Spring</b>	3-A Standars/SMS	301	0,8 Ra
<b>ABS Handle</b>	3-A Standars/SMS	ABS	0,8 Ra
<b>SS Handle</b>	3-A Standars/SMS	304L	0,8 Ra
<b>Strainer</b>	Clamp ISO 2852	316L	0,8 Ra
<b>Flat Glass</b>	DIN-11851	Glass / Pyrex	0,8 Ra
<b>Tubular Glass</b>	3-A Standars	Glass / Pyrex	0,8 Ra
<b>Strainer</b>		304L	0,8 Ra
<b>Strainer Screen</b>		316L	0,8 Ra

DESCRIPTION	MANUFACTURING STANDARD	SS TYPE	INTERNAL FINISH
<b>Sanitary</b>	ASTM A-270/DIN 11850	316L-304L	0,8 Ra
<b>BPE</b>	ASME BPE 2002	316L	0,5 - 0,375 Ra
<b>Decorative</b>	ASTM A-554	316 - 304	Unpolished
<b>Industrial</b>	ASTM A-312	304/304	Pickled

DESCRIPTION	MANUFACTURING STANDARD	SS TYPE	INTERNAL FINISH
<b>Elbow</b>	ASME BPE 2002	316L	0,5 - 0,375 Ra
<b>Tee</b>	ASME BPE 2002	316L	0,5 - 0,375 Ra
<b>Reduction</b>	ASME BPE 2002	316L	0,5 - 0,375 Ra
<b>Use - Point</b>	ASME BPE 2002	316L	0,5 - 0,375 Ra

DESCRIPTION	MANUFACTURING STANDARD
Viton	ASTM 1418 / ISO 1629 / 3A Standards
Silicone	ASTM 1418 / ISO 1629 / 3A Standards
EPDM	ASTM 1418 / ISO 1629 / 3A Standards
Buna	ASTM 1418 / ISO 1629 / 3A Standards
Neoprene	ASTM 1418 / ISO 1629 / 3A Standards
Teflon	ASTM 1418 / ISO 1629 / 3A Standards

# Attachments



1 lb per sq in	= 2.31 feet of head
1 ft of head	= .43 lbs per sq in
1 U.S gal of water	= 8.335 lbs
1 U.S gal	= 231 cu in
1 in of mercury	= .491 obs per sq in
1 in of mercury	= 13.60 inches of water
1 cu ft of water	= 7.481 U.S gals
1 U.S quart	= 947 c.c

STAINLESS STEEL TUBING DATA						
Standard size (O.D) inches	1	1 1/2	2	2 1/2	3	4
Gals. Water per ft of length	.031	.077	.143	.229	.336	.600
Volume in cu in per ft of length	7.13	17.69	32.96	52.94	77.63	138.5

## FRCTION LOSS EXPRESSED IN FT. PER FITTING AND FT. PER FOOT OF STAINLESS STEEL TUBING

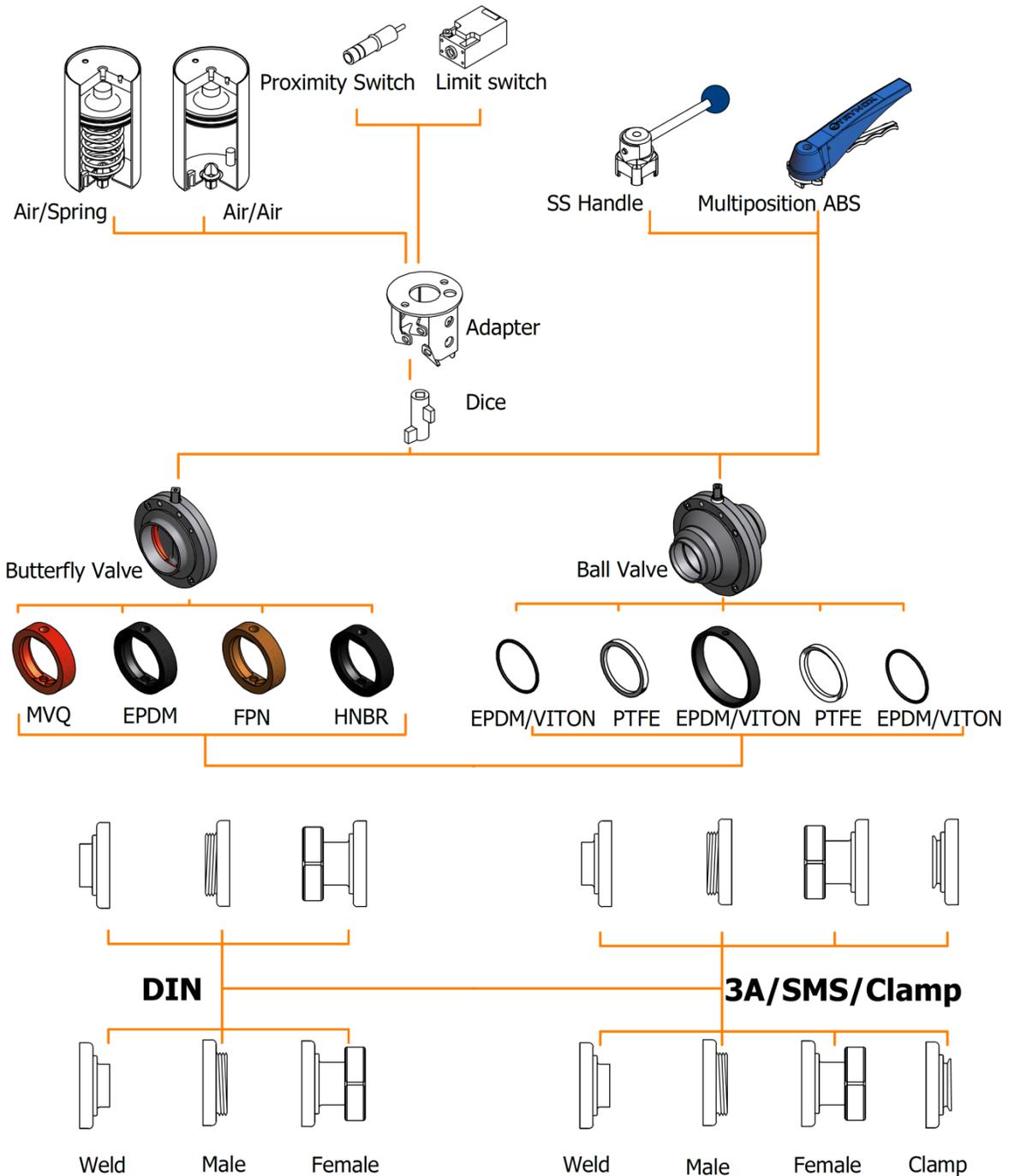
Capacity in US G.P.M	O.D.-1"			O.D.-1 1/2"			O.D.-2"			O.D.-2 1/2"			O.D.-3"			O.D.-4"		
	I.D.-.870"			I.D.-1.370"			I.D.-1.870"			I.D.-2.370"			I.D.-2.870"			I.D.-3.834"		
	Tubing	Elbow	Tee	Tubing	Elbow	Tee	Tubing	Elbow	Tee	Tubing	Elbow	Tee	Tubing	Elbow	Tee	Tubing	Elbow	Tee
2	.01	.01	.08															
4	.03	.02	.23															
5	.04	.03	.30															
10	.14	.7	.47	.02	.01	.12	.005	.015	.1									
15	.29	.12	.92	.04	.02	.21	.013	.02	.15									
20	.48	.24	1.66	.06	.03	.28	.02	.025	.2	.005	.02	.1	.003	.02	.06			
25	.71	.43	2.45	.08	.04	.41	.025	.03	.25	.006	.03	.15	.004	.03	.08			
30	1.00	.75	3.56	.11	.07	.59	.035	.05	.3	.008	.05	.02	.005	.04	.1			
35	1.29	1.32	5.49	.15	.10	.87	.04	.06	.4	.011	.06	.25	.006	.05	.13			
40				.19	.12	1.09	.05	.08	.5	.015	.07	.3	.007	.06	.15			
45				.24	.18	1.49	.063	.1	.6	.02	.09	.35	.008	.065	.18			
50				.28	.22	1.78	.073	.12	.7	.022	.1	.4	.01	.07	.2			
60				.39	.40	2.53	.1	.18	.9	.03	.12	.45	.015	.08	.25			
80				.66	.87	4.24	.16	.3	1.5	.05	.15	.55	.02	.1	.4			
100				.96	1.52	6.53	.23	.44	2.3	.075	.18	.6	.03	.11	.5	.008	.04	.1
120				1.37	2.38	10.57	.32	.64	3.3	.105	.21	1.0	.04	.13	.6	.04	.05	.15
140							.42	.85	4.5	.14	.23	1.25	.05	.16	.8	.013	.06	.2
160							.54	1.13	5.8	.17	.28	1.6	.07	.2	1.1	.015	.07	.25
180							.67	1.45	7.4	.205	.31	2.0	.08	.21	1.3	.02	.08	.3
200							.81	1.82	9.0	.245	.35	2.5	.1	.26	1.6	.025	.09	.4
220							.95	2.22	11.0	.29	.41	3.0	.12	.3	1.9	.028	.1	.5
240							1.10	2.63	13.5	.34	.48	3.7	.14	.33	2.2	.035	.11	.55
260										.39	.53	4.5	.165	.39	2.5	.04	.115	.6
280										.45	.61	5.3	.19	.42	2.8	.045	.12	.65
300										.515	.7	6.2	.22	.5	3.1	.05	.13	.7
350										.68	1.05	8.5	.28	.67	4.1	.07	.15	.9
400										.86	1.55	11.0	.36	.88	5.2	.085	.18	1.2
450										1.05	2.25	13.5	.44	1.1	6.6	.105	.2	1.5
500													.54	1.4	8.0	.13	.23	1.75
550													.64	1.7	9.5	.15	.27	2.1
600													.75	2.05	10.2	.175	.3	2.5
650													.87	2.41	13.0	.2	.34	2.8
700													1.0	2.8	15.0	.23	.4	3.4
750																.26	.43	3.8
800																.3	.5	4.4
850																.33	.56	5.0
900																.37	.62	5.7
950																.41	.7	6.3
1000																.45	.8	7.0
1100																.53	1.06	8.6



# TRYNOX

# Attachments

## BALL/BUTTERFLY VALVES CONFIGURATION



## KEYLESS FITTING PROVIDER



If you want more information about our products and services, feel free to contact us to our email address [trynox@trynox.com](mailto:trynox@trynox.com) or visit our web page [www.trynox.com](http://www.trynox.com)



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