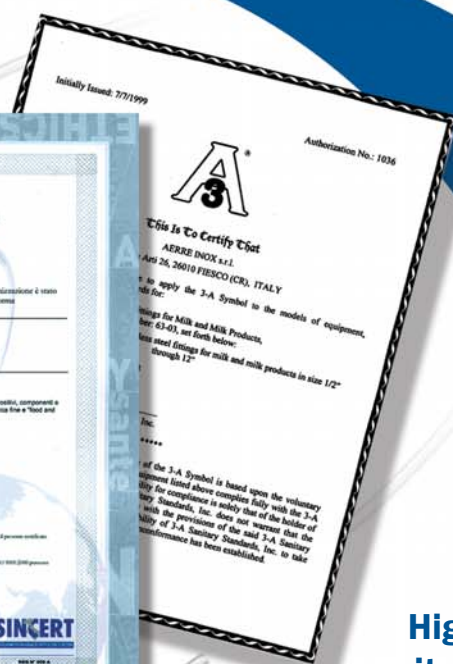




Clamp Fittings





High quality sanitary fittings for the success of your pharmaceutical process

PRODUCT

Stainless Steel fittings comply with ASME BPE standards. All clamp gasket compounds meet the criteria of the FDA, and some compound formulations have also been certified and accepted by the USDA, 3-A Sanitary Standard, and USP Class VI certifications.

MATERIAL

Fittings are fabricated in AISI 316L Stainless Steel (EN 1.4404 - 1.4435). Sulfur controlled to 0,005 @ 0,017% on all weld ends, allowing for consistent and high quality orbital welding process. Sulfur has the biggest impact on weld quality.

SIZES

Stainless Steel fittings in size 1/2" @ 4" as standard. Larger sizes are available upon request.

DIMENSIONS & TOLERANCES

Dimensions according to ASTM A270 Tolerance as per ASTM A269 or as specified in ASME BPE Part DT - Table DT-5* (*for BPE fittings only).

FINISH

Stainless Steel fittings internal surface finish comply with ASME BPE std. as specified in ASME BPE Part SF - Table SF-4. Surface designation code SFF2. Mechanical polish consists of abrasive polishing. External surface finish: scotchbrite.

MARKING

Each fittings is marked with the following: heat number, size, material grade, brand name.

DOCUMENTATION

Material Test Reports (MTR) are delivered with the material.

SPECIALTY ITEMS

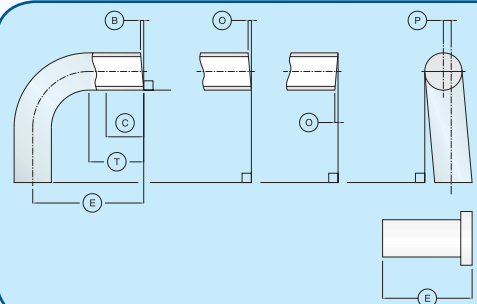
Contact AR Inox for information for fittings not shown in this brochure.



Sanitary standards symbol
administrative council
certificate of authorization # 1036
for standard no. 63-03

TOLERANCES TABLE DT- 5

Final tolerances for mechanically polished fittings and process components



Nominal Size	OD mm	Wall thickness mm	Squareness face to tangent, B mm	Off Angle, O mm	Off Plane, P mm
1/2"	±0,13	+0,13/-0,20	0,13	0,36	0,36
3/4"	±0,13	+0,13/-0,20	0,13	0,46	0,46
1"	±0,13	+0,13/-0,20	0,20	0,64	0,64
1 1/2"	±0,20	+0,13/-0,20	0,20	0,86	0,86
2"	±0,20	+0,13/-0,20	0,20	1,09	1,09
2 1/2"	±0,25	+0,13/-0,20	0,25	1,37	1,37
3"	±0,25	+0,13/-0,20	0,41	1,73	1,73
4"	±0,38	+0,20/-0,25	0,41	2,18	2,18
6"	±0,76	+0,20/-0,38	0,76	3,43	3,4

GENERAL NOTE: tolerances on E end-to-end, center-to-end: 1,27 mm.
The length of the control portion C is fixed for all size at 19 mm.

ualit

SURFACE FINISH TABLE SF- 4 Ra readings for fittings

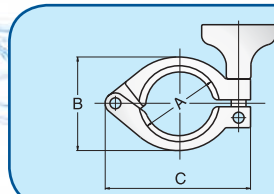
ASME BPE Surface designation	INSIDE SURFACE		Surface treatment
	Ra Average µm	Ra Maximum µm	
SFF1	0,375	0,5	Mechanically polished
SFF2	0,5	0,625	Mechanically polished
SFF3	0,625	0,75	Mechanically polished
SFF4	0,25	0,375	Mech.pol. & Electropoli.
SFF5	0,375	0,5	Mech.pol. & Electropoli.
SFF6	0,5	0,625	Mech.pol. & Electropoli.

GENERAL NOTE: All Ra readings are taken across the lay, wherever possible.
The average Ra is derived from readings taken at four cross sections approximately 90 ° apart. No single reading exceeding Ra max.





code **13MHHS - FRACTIONAL**

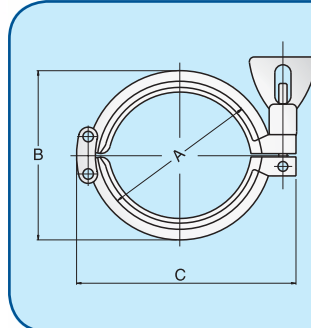


size	A	B	C	Gr.	code
1/2"	28,0	35,0	51,0	140	13MHHS-1/2"
3/4"	28,0	35,0	51,0	140	13MHHS-3/4"

Clamp in misura unica - One size accomodates 1/2" and 3/4"



code **13MHMM**

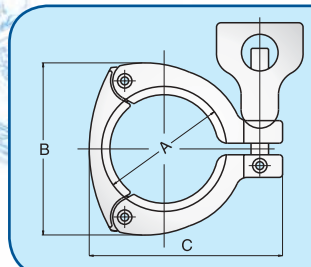


size	A	B	C	Gr.	code
1"	54,0	67,0	86,0	225	13MHMM-1"
1 1/2"	54,0	67,0	86,0	225	13MHMM-1 1/2"
2"	67,5	81,0	101,0	295	13MHMM-2"
2 1/2"	81,0	94,0	114,0	340	13MHMM-2 1/2"
3"	94,5	105,0	126,0	450	13MHMM-3"
4"	122,5	134,0	156,0	500	13MHMM-4"
6"	170,0	185,0	216,0	1150	13MHMM-3"
8"	221,0	235,0	270,0	1500	13MHMM-4"
10"	271,0	285,0	325,0	1750	13MHMM-3"
12"	322,0	340,0	380,0	2100	13MHMM-4"

Clamp a due settori con doppio snodo - Double pin heavy duty clamp Size 1" @ 12"



code **13MHHS**

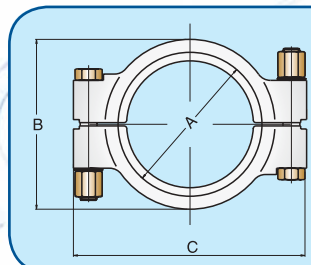


size	A	B	C	Gr.	code
1"	52,0	69,0	80,0	400	13MHHS-1"
1 1/2"	52,0	69,0	80,0	400	13MHHS-1 1/2"
2"	65,5	82,0	95,0	450	13MHHS-2"
2 1/2"	79,0	97,0	105,0	500	13MHHS-2 1/2"
3"	92,5	109,0	125,0	600	13MHHS-3"
4"	120,5	133,0	155,0	750	13MHHS-4"

Clamp a 3 settori - 3 Pieces heavy duty clamp Size 1" @ 4"



code **13MHP**



size	A	B	C	Gr.	code
3/4"	28,0	37,0	55,0	150	13MHP-3/4"
1"	52,0	69,0	103,0	500	13MHP-1"
1 1/2"	52,0	69,0	103,0	500	13MHP-1 1/2"
2"	65,5	82,0	115,0	750	13MHP-2"
2 1/2"	79,0	97,0	128,0	800	13MHP-2 1/2"
3"	92,5	109,0	141,0	900	13MHP-3"
4"	120,5	133,0	167,0	1050	13MHP-4"

Clamp per alte pressioni - High pressure clamp Size 3/4" @ 4"

PRESSIONI max di esercizio in Kg/cm2 - bar Service Rating



tubo OD	1/2"-3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"
13MHMM coppia serraggio galletto - wing nut tightened to = 2,8 Nm of torque							
@ 21 °C	152	34	34	31	28	24	21
@ 121 °C	82,7	21	21	21	14	13	10
13MHHS coppia serraggio galletto - wing nut tightened to = 2,8 Nm of torque							
@ 21 °C		41	41	38	31	24	21
@ 121 °C		21	21	19	15	12	10
13MHP coppia serraggio bulloni - bolt tightened to = 27,1 Nm of torque							
@ 21 °C		207	103	69	69	69	55
@ 121 °C		83	83	55	55	55	41

Le pressioni max riportate in tabella si basano su risultati ottenuti da prove idrauliche utilizzando guarnizioni standard in Buna-U.

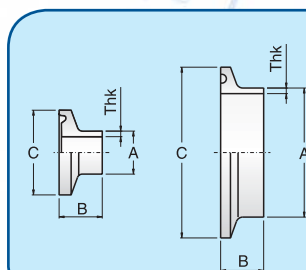
Per temperature superiori a 121 °C si raccomanda di utilizzare solo il clamp tipo 13MHP.

Service rating are based on hydrostatic tests using standard Buna-U gaskets.

For temperature above 121 °C we recommend using only 13MHP clamp only.



code **14WMP**



size	A	B	C	Thk	code
1/2"	12,7	12,7	25,2	1,65	14WMP-1/2"
3/4"	19,05	12,7	25,2	1,65	14WMP-3/4"
1"	25,4	12,7	50,4	1,65	14WMP-1"
1 1/2"	38,1	12,7	50,4	1,65	14WMP-1 1/2"
2"	50,8	12,7	64,0	1,65	14WMP-2"
2 1/2"	63,5	12,7	77,4	1,65	14WMP-2 1/2"
3"	76,2	12,7	90,0	1,65	14WMP-3"
4"	101,6	15,8	118,8	2,11	14WMP-4"

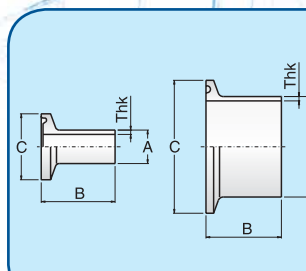
Tronchetto a saldare corto - *Short Welding Ferrule*

Cod. BS14AM

ASME BPE-2002 compliant
BPE TABLE # DT-22



code **L14AM7**

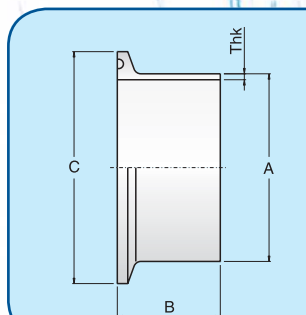


size	A	B	B-BPE	C	code
1/2"	12,7	28,0	44,5	25,2	L14AM7-1/2"
3/4"	19,05	28,0	44,5	25,2	L14AM7-3/4"
1"	25,4	28,6	44,5	50,4	L14AM7-1"
1 1/2"	38,1	28,6	44,5	50,4	L14AM7-1 1/2"
2"	50,8	28,6	57,2	64,0	L14AM7-2"
2 1/2"	63,5	28,6	57,2	77,4	L14AM7-2 1/2"
3"	76,2	28,6	57,2	90,0	L14AM7-3"
4"	101,6	28,6	57,2	118,8	L14AM7-4"

Tronchetto a saldare per orbitale - *Orbital welding Ferrule*



code **14WLMO**

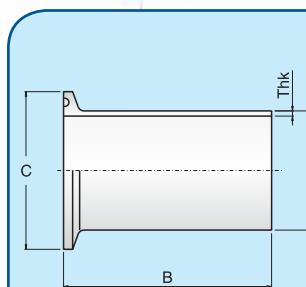


size	A	B	C	Thk	code
6"	152,4	28,0	166,67	2,77	14WLMO-6"
8"	203,2	28,0	217,67	2,77	14WLMO-8"
10"	254,0	28,0	268,48	2,77	14WLMO-10"
12"	304,8	28,0	319,27	2,77	14WLMO-12"

Tronchetto a saldare per orbitale - *Orbital welding Ferrule*

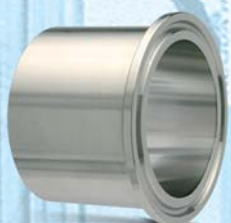


code **14WLMP**

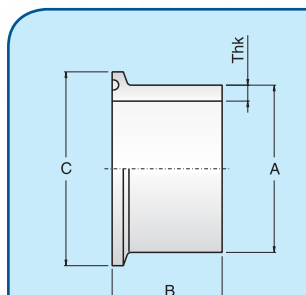


size	A	B	C	Thk	code
1/2"	Not available				
3/4"	Not available				
1"	25,4	76,2	50,4	1,65	14WLMP-1"
1 1/2"	38,1	76,2	50,4	1,65	14WLMP-1 1/2"
2"	50,8	76,2	64,0	1,65	14WLMP-2"
2 1/2"	63,5	76,2	77,4	1,65	14WLMP-2 1/2"
3"	76,2	101,6	90,0	1,65	14WLMP-3"
4"	101,6	101,6	118,8	2,11	14WLMP-4"

Tronchetto a saldare lungo - *Long Welding Ferrule (Light)*



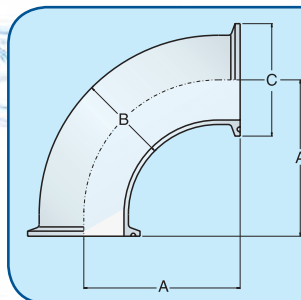
code **14MPW**



size	A	B	C	Thk	code
1/2"	Not available				
3/4"	Not available				
1"	29,5	41,3	50,4	3,85	14MPW-1"
1 1/2"	42,6	41,3	50,4	4,05	14MPW-1 1/2"
2"	55,7	44,4	64,0	4,25	14MPW-2"
2 1/2"	68,8	44,4	77,4	4,45	14MPW-2 1/2"
3"	81,9	46,0	90,0	4,65	14MPW-3"
4"	108,1	54,0	118,8	5,65	14MPW-4"

Tronchetto a saldare spessorato - *Welding Ferrule (Heavy)*

Cod. B2CMP-90°
ASME BPE-2002
compliant
BPE TABLE
DT-16

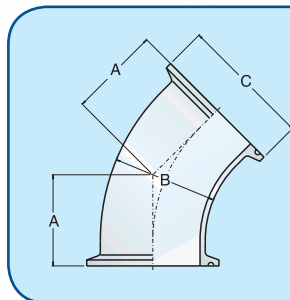


size	A	B	C	A-BPE	code
1/2"			25,2	41,3	2CMP-90-1/2"
3/4"			25,2	41,3	2CMP-90-3/4"
1"	50,8	25,4	50,4	50,8	2CMP-90-1"
1 1/2"	69,9	38,1	50,4	69,9	2CMP-90-1 1/2"
2"	88,9	50,8	64,0	88,9	2CMP-90-2"
2 1/2"	108,0	63,5	77,4	108,0	2CMP-90-2 1/2"
3"	127,0	76,2	90,0	127,0	2CMP-90-3"
4"	168,3	101,6	118,8	168,3	2CMP-90-4"

code **2CMP - 90° ELL**

Curva clamp 90° - 90° Elbow clamp ends

Cod. B2KMP-45°
ASME BPE-2002 compliant
BPE TABLE # DT-17

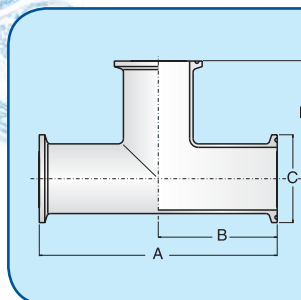


size	A	B	C	A-BPE	code
1/2"			25,2	25,4	2KMP-45-1/2"
3/4"			25,2	25,4	2KMP-45-3/4"
1"	28,6	25,4	50,4	28,6	2KMP-45-1"
1 1/2"	36,5	38,1	50,4	36,5	2KMP-45-1 1/2"
2"	44,5	50,8	64,0	44,5	2KMP-45-2"
2 1/2"	52,4	63,5	77,4	52,4	2KMP-45-2 1/2"
3"	60,3	76,2	90,0	60,3	2KMP-45-3"
4"	79,4	101,6	118,8	79,4	2KMP-45-4"

code **2KMP - 45° ELL**

Curva clamp 45° - 45° Elbow clamp ends

Cod. B7MP
ASME BPE-2002
compliant
BPE TABLE
DT-18

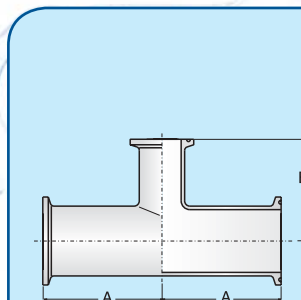


size	A	B	C	B-BPE	code
1/2"			25,2	57,2	7MP-1/2" - from bar
3/4"			25,2	60,3	7MP-3/4" - from bar
1"	120,6	60,3	50,4	66,7	7MP-1"
1 1/2"	139,8	69,9	50,4	73,0	7MP-1 1/2"
2"	177,8	88,9	64,0	85,7	7MP-2"
2 1/2"	177,8	88,9	77,4	92,1	7MP-2 1/2"
3"	190,6	95,5	90,0	98,4	7MP-3"
4"	228,6	114,3	118,8	120,7	7MP-4"

code **7MP**

Tee clamp - Tee clamp ends

Cod. B7RMP
ASME BPE-2002 compliant
BPE TABLE # DT-19

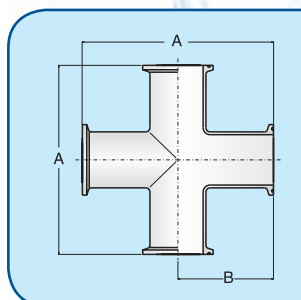


size	A	B	A-BPE	B-BPE	code
1"x3/4"			66,7	66,7	7RMP-1"1/2x3/4"
1 1/2"x1"	69,9	66,7	73,0	73,0	7RMP-1 1/2x1"
2"x1"	88,9	66,7	85,7	79,4	7RMP-2"x1"
2"x1 1/2"	88,9	76,2	85,7	79,4	7RMP-2"x1 1/2"
2 1/2"x1 1/2"	88,9	82,6	92,1	85,7	7RMP-2 1/2x1 1/2"
2 1/2"x2"	88,9	95,3	92,1	85,7	7RMP-2 1/2x2"
3"x1 1/2"	95,3	88,9	98,4	92,1	7RMP-3"x1 1/2"
3"x2"	95,3	101,6	98,4	98,4	7RMP-3"x2"
3"x2 1/2"	95,3	95,3	98,4	98,4	7RMP-3"x2 1/2"
4"x2"	114,3	114,3	120,7	111,1	7RMP-4"x2"
4"x2 1/2"	114,3	104,8	120,7	111,1	7RMP-4"x2 1/2"
4"x3"	114,3	104,8	120,7	111,1	7RMP-4"x3"

code **7RMP-TC**

Tee clamp ridotto - Reducing tee clamp ends

Cod. B9MP
ASME BPE-2002
compliant
BPE TABLE
DT-18



size	A	B	A-BPE	B-BPE	code
1/2"			114,4	57,2	9MP-1/2" - from bar
3/4"			120,6	60,3	9MP-3/4" - from bar
1"	133,4	66,7	133,4	66,7	9MP-1"
1 1/2"	146,0	73,0	146,0	73,0	9MP-1 1/2"
2"	177,8	88,9	171,4	85,7	9MP-2"
2 1/2"	177,8	88,9	184,2	92,1	9MP-2 1/2"
3"	190,6	95,3	196,8	98,4	9MP-3"
4"	228,6	114,3	241,4	120,7	9MP-4"

code **9MP**

Croce clamp - Cross clamp ends



code **16AMP**

Tappo clamp cieco - *Clamp solid end cap*

size	B	C	code
1/2" - 3/4"	25,2	4,7	16AMP-3/4"
1" - 1 1/2"	50,4	6,4	16AMP-1" 1/2
2"	63,9	6,4	16AMP-2"
2 1/2"	77,4	6,4	16AMP-2" 1/2
3"	90,9	6,4	16AMP-3"
4"	118,9	6,4	16AMP-4"
6"	166,9	11,1	16AMP-6"
8"	217,7	11,1	16AMP-8"
10"	268,5	14,3	16AMP-10"
12"	319,3	14,3	16AMP-12"

code **31-14MP**

Riduzione concentrica clamp - *Concentric reducer clamp ends*



Cod.B31/32 14MP
ASME BPE-2002 compliant
BPE TABLE # DT-21



code **32-14MP**

Riduzione eccentrica clamp - *Eccentric reducer clamp ends*

size	A	A-BPE	code
3/4" x 1/2"	50,8	50,8	31/32-14MP-3/4" x 1/2"
1" x 1/2"	63,5	63,5	31/32-14MP-1" x 1/2"
1" x 3/4"	50,8	50,8	31/32-14MP-1" x 3/4"
1 1/2" x 3/4"	76,2	76,2	31/32-14MP-1 1/2" x 3/4"
1 1/2" x 1"	76,2	76,2	31/32-14MP-1 1/2" x 1"
2" x 1"	127,0	127,0	31/32-14MP-2" x 1"
2" x 1 1/2"	76,2	76,2	31/32-14MP-2" x 1 1/2"
2 1/2" x 1 1/2"	127,0	127,0	31/32-14MP-2 1/2" x 1 1/2"
2 1/2" x 2"	76,2	76,2	31/32-14MP-2 1/2" x 2"
3" x 1 1/2"	177,8	177,8	31/32-14MP-3" x 1 1/2"
3" x 2"	127,0	127,0	31/32-14MP-3" x 2"
3" x 2 1/2"	76,2	76,2	31/32-14MP-3" x 2 1/2"
4" x 2"	231,8	231,8	31/32-14MP-4" x 2"
4" x 2 1/2"	181,0	181,0	31/32-14MP-4" x 2 1/2"
4" x 3"	130,2	130,2	31/32-14MP-4" x 3"

code **22MP**

Adattatore femmina - *Female adapters (non 3A)*



size	A	B	code
1/2"	Thread profile BSPP/Cylindrical gas B= ON REQUEST		
3/4"			
1"			
1 1/2"			
2"			
2 1/2"			
3"			
4"			

code **21MP**

Adattatore maschio - *Male adapters (non 3A)*



size	A	B	code
1/2"	Thread profile - BSPP/Cylindrical gas - BSPT/Conical gas - NPT B= ON REQUEST		
3/4"			
1"			
1 1/2"			
2"			
2 1/2"			
3"			
4"			

BSPP/CYLINDRICAL GAS	BSPT/CONICAL GAS	NPT
$H = 0,9604 \times \text{Pitch}$ $h = 0,6403 \times \text{Pitch}$ $r = 0,1373 \times \text{Pitch}$	$H = 0,9604 \times \text{Pitch}$ $h = 0,6403 \times \text{Pitch}$ $r = 0,1373 \times \text{Pitch}$ conicalness = 6,25%	$H = 0,866 \times \text{Pitch}$ $h = 0,800 \times \text{Pitch}$ conicalness = 6,25%

THREAD PROFILE

Ask for sizes not shown in this brochures.



Sanitary Clamp Gaskets

All clamp gaskets compounds meet the criteria of the FDA, and some compound formulations have also been certified and accepted by the USDA, 3-A Sanitary Standard, and USP Class VI certifications.

codice	materiale	size
42MP-U	BUNA	1/2" e 3/4"
42MP-X	SILICONE	1/2" e 3/4"
42MP-E	EPDM	1/2" e 3/4"
42MP-G	PTFE	1/2" e 3/4"
42MP-SFY	VITON	1/2" e 3/4"

cod. **42MP**

Guarnizione disponibile in due misure: 1/2" e 3/4"

tipo **FRACTIONAL**

Tipo più comunemente usato ed economico. È disponibile da 1/2" a 12".

Standard-Molded, one piece O-ring Gasket is economical, dependable. Available from stock 1/2" ÷ 12".

codice	materiale	size
40MP-U	BUNA	1" @ 4"
40MP-X	SILICONE	1" @ 4"
40MP-E	EPDM	1" @ 4"
40MP-G	PTFE	1" @ 12"
40MP-SFY	VITON	1" @ 4"

cod. **40MP**

Guarnizione standard in un solo pezzo tipo economico

tipo **1**

Tipo flangiato per essere tenuto in posizione. È disponibile da 1" a 12".

Flanged-Molded, flanged O-ring Gasket with special snap-on rim design. Fits snugly and stays in position. Available from stock 1" ÷ 12".

codice	materiale	size
40MPF-X	SILICONE	1" @ 12"
40MPF-E	EPDM	1" @ 12"
40MPF-SFY	VITON	1" @ 12"

cod. **40MPF**

Guarnizione a labbro autocentrante

tipo **2**

Tipo con rivestimento esterno in TEFLON e inserzione di VITON. È disponibile da 1" a 4".

Envelope Gasket has teflon outer jacket with a V-envelope type section to sandwich a VITON rubber insert. Available from stock 1" ÷ 4".

codice	materiale	size
A40MP-GR	PTFE+VITON	1" @ 4"

cod. **A40MP-GR**

Guarnizione in VITON rivestita esternamente in PTFE

tipo **3**

Normalmente utilizzate per la realizzazione di dischi calibrati.

Normally used for prepare flange orifice.

codice	materiale	size
A80MP-G	PTFE	3/4" @ 2"

cod. **A80MP-G**

Guarnizione in PTFE cieca

tipo **SOLID**

Type 316 Stainless steel 0,023 dia. wire width of opening 0,75 inches between wires.

codice	materiale	size
A40MP-US-E	EPDM	1" @ 4"
A40MP-US-SFY	VITON	1" @ 4"
A40MP-US-X	SILICONE	1" @ 4"

cod. **40MP-US**

Reti filtranti

tipo **SCREEN GASKET**

PERFORMANCE PROPERTIES

Property	Nitrile(Buna-U)	Ethylene-Propylene (EPDM-E)	Silicone (X)	Fluoroelastomer (Viton®-SFY)	Teflon® PTFE (G)
Tensile Strength	Fair-Good	Good-Excellent	Good	Good-Excellent	Excellent
Electrical Properties	Poor	Excellent	Excellent	Good	Excellent
Weather Resistance	Good	Excellent	Excellent	Good	Excellent
Ozone Resistance	Fair	Excellent	Excellent	Excellent	Excellent
Heat Resistance	Good (99 °C)	Excellent (149 °C)	Excellent (232 °C)	Excellent (177 °C)	Excellent (232 °C)
Cold Resistance	Fair-Good (-54 °C)	Good-Excellent (-51 °C)	Excellent (-62 °C)	Good (-29 °C)	Fair (-40 °C)
Steam Resistance	Good	Good	Poor	Good	Excellent
Tear Resistance	Good	Good	Excellent	Fair	Excellent
Abrasion	Good	Good-Excellent	Good-Excellent	Good	Excellent
Acid Resistance	Good	Good-Excellent	Good	Good	Excellent
Petroleum Oil	Excellent	Poor	Good	Excellent	Excellent
Flame Resistance	Poor	Poor	Poor	Good	Excellent
Vegetable Oil	Good	Good (Most)	Good (Intermittent)	Excellent	Excellent

Buna-N is not recommended for use with CIP Sanitizing Agent OXONIA; use EPDM or Silicone.
Silicone-X is not recommended for use with glicerina.



A[®]₃

**Guarnizioni prodotte in quattro versioni base
in una varietà di materiali atossici, non igroscopici.**

**Gaskets are produced in four basic designs
in a variety of materials that are non-toxic, absorbent free.**

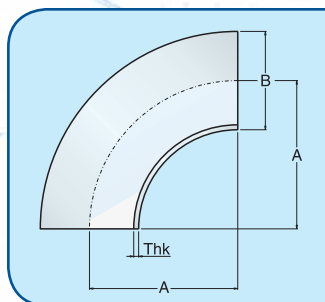
- Meet U.S. Pharmacopoeia Class VI
- Comply with title 21 CFR 177.2600
- Comply with USDA and 3A sanitary standard

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British Standard BS 4825
ASME BPE-2002 COMPLIANT FITTINGS
available on request

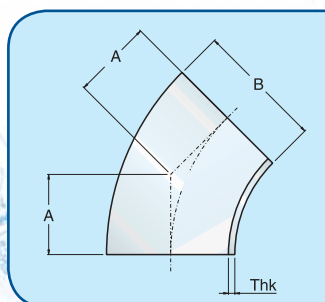
Weld ends fitting



size	A	B	Thk	code
1/2"		12,7	1,65	2WCL-90-1/2"
3/4"		19,05	1,65	2WCL-90-3/4"
1"	38,1	25,4	1,65	2WCL-90-1"
1 1/2"	57,2	38,1	1,65	2WCL-90-1 1/2"
2"	76,2	50,8	1,65	2WCL-90-2"
2 1/2"	95,3	63,5	1,65	2WCL-90-2 1/2"
3"	114,3	76,2	1,65	2WCL-90-3"
4"	152,4	101,6	2,11	2WCL-90-4"

code **2WCL - 90 °**

Curva saldare 90 ° - 90 ° Elbow weld ends

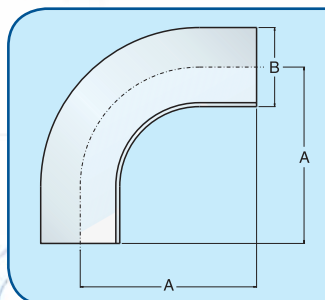


size	A	B	Thk	code
1/2"		12,7	1,65	2WK-45-1/2"
3/4"		19,05	1,65	2WK-45-3/4"
1"	15,9	25,4	1,65	2WK-45-1"
1 1/2"	23,8	38,1	1,65	2WK-45-1 1/2"
2"	31,8	50,8	1,65	2WK-45-2"
2 1/2"	39,7	63,5	1,65	2WK-45-2 1/2"
3"	47,6	76,2	1,65	2WK-45-3"
4"	63,5	101,6	2,11	2WK-45-4"

code **2WK - 45 °**

Curva saldare 45 ° - 45 ° Elbow weld ends

Cod. B2S- 90 °
ASME BPE-2002 compliant
BPE TABLE # DT-7

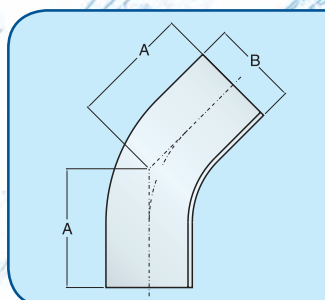


size	A	A-BPE	B	code
1/2"		76,2	12,7	L2S-90-1/2"
3/4"		76,2	19,05	L2S-90-3/4"
1"	52,4	76,2	25,4	L2S-90-1"
1 1/2"	74,6	95,3	38,1	L2S-90-1 1/2"
2"	103,2	120,7	50,8	L2S-90-2"
2 1/2"	131,8	139,7	63,5	L2S-90-2 1/2"
3"	160,3	158,8	76,2	L2S-90-3"
4"	211,1	203,2	101,6	L2S-90-4"

code **L2S - 90 °**

Curva saldare in orbitale 90 ° - 90 ° Tube bend

Cod. B2KS- 45 °
ASME BPE-2002 compliant
BPE TABLE # DT-8

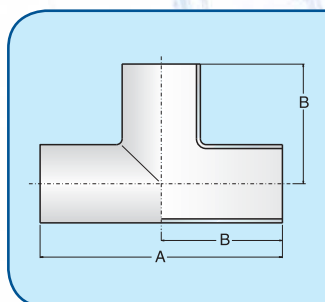


size	A	A-BPE	B	code
1/2"		57,2	12,7	L2KS-45-1/2"
3/4"		57,2	19,05	L2KS-45-3/4"
1"	30,2	57,2	25,4	L2KS-45-1"
1 1/2"	41,3	63,5	38,1	L2KS-45-1 1/2"
2"	58,7	76,2	50,8	L2KS-45-2"
2 1/2"	76,2	85,7	63,5	L2KS-45-2 1/2"
3"	93,7	92,1	76,2	L2KS-45-3"
4"	122,2	114,3	101,6	L2KS-45-4"

code **L2KS - 45 °**

Curva saldare in orbitale 45 ° - 45 ° Tube bend

Cod. B7WWW
ASME BPE-2002 compliant
BPE TABLE # DT-9



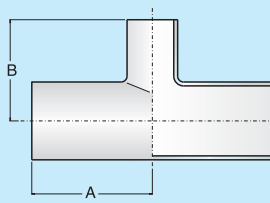
size	A	B	A-BPE	B-BPE	code
1/2"			95,2	47,6	7WWW-1/2"
3/4"			101,6	50,8	7WWW-3/4"
1"	95,2	47,6	108,0	54,0	7WWW-1"
1 1/2"	114,4	57,2	120,6	60,3	7WWW-1 1/2"
2"	152,4	76,2	146,0	73,0	7WWW-2"
2 1/2"	152,4	76,2	158,8	79,4	7WWW-2 1/2"
3"	165,2	82,6	171,4	85,7	7WWW-3"
4"	196,8	98,4	209,6	104,8	7WWW-4"

code **7WWW**

Tee a saldare - Tee welds ends

Cod. B7RWWW

ASME BPE-2002 compliant
BPE TABLE # DT-10



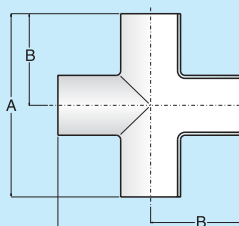
size	A	B	A-BPE	B-BPE	code
1"x3/4"			54,0	54,0	7RWWW-1"1/2x3/4"
1"x1/2"	57,2	54,0	60,3	60,3	7RWWW-1"1/2x1"
2"x1"	76,2	60,3	73,0	66,7	7RWWW-2"x1"
2"x1 1/2"	76,2	63,5	73,0	66,7	7RWWW-2"x1 1/2"
2 1/2"x1 1/2"	76,2	69,9	79,4	73,0	7RWWW-2 1/2x1 1/2"
2 1/2"x2"	76,2	82,6	79,4	73,0	7RWWW-2 1/2x2"
3"x1 1/2"	82,6	76,2	85,7	79,4	7RWWW-3"x1 1/2"
3"x2"	82,6	88,9	85,7	79,4	7RWWW-3"x2"
3"x2 1/2"	82,6	82,6	85,7	79,4	7RWWW-3"x2 1/2"
4"x2"	98,4	101,6	104,8	98,4	7RWWW-4"x2"
4"x2 1/2"	98,2	95,3	104,8	98,4	7RWWW-4"x2 1/2"
4"x3"	98,2	95,3	104,8	98,4	7RWWW-4"x3"

code 7RWWW

Tee ridotto a saldare - Reducing tee weld ends

Cod. B9WXXX

ASME BPE-2002 compliant
BPE TABLE # DT-9



size	A	B	A-BPE	B-BPE	code
1/2"			95,2	47,6	9WXXX-1/2"
3/4"			101,6	50,8	9WXXX-3/4"
1"	95,2	47,6	108,0	54,0	9WXXX-1"
1 1/2"	114,4	57,2	120,6	60,3	9WXXX-1 1/2"
2"	152,4	76,2	146,0	73,0	9WXXX-2"
2 1/2"	152,4	76,2	158,8	79,4	9WXXX-2 1/2"
3"	165,2	82,6	171,4	85,7	9WXXX-3"
4"	196,8	98,4	209,6	104,8	9WXXX-4"

code 9WXXX

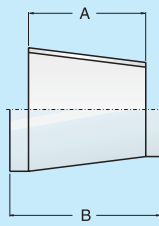
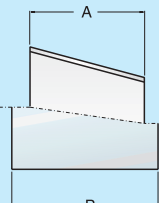
Croce a saldare - Cross weld ends

code 31W

Riduzione concentrica a saldare - Concentric reducer weld ends

Cod. B31/B32

ASME BPE-2002 compliant
BPE TABLE # DT-11

size	A	B-BPE	code
3/4" x 1/2"		101,6	31/32W-3/4"x 1/2"
1"x 1/2"		114,3	31/32W-1"x 1/2"
1"x 3/4"		101,6	31/32W-1"x 3/4"
1 1/2"x 3/4"		127,0	31/32W-1 1/2"x 3/4"
1 1/2"x 1"	50,8	127,0	31/32W-1 1/2"x 1"
2"x 1"	101,6	184,2	31/32W-2"x1"
2"x 1 1/2"	50,8	133,4	31/32W-2"x1 1/2"
2 1/2"x 1"		235,0	31/32W-2 1/2"x1"
2 1/2"x1 1/2"		184,2	31/32W-2 1/2"x1 1/2"
2 1/2"x 2"	50,8	139,7	31/32W-2 1/2"x2"
3" x 1 1/2"	152,4	235,0	31/32W-3"x1 1/2"
3" x 2"	101,6	190,5	31/32W-3"x 2"
3" x 2 1/2"	50,8	139,7	31/32W-3"x 2 1/2"
4"x 2"	203,2	298,5	31/32W-4" x 2"
4" x 2 1/2"	152,4	247,7	31/32W-4"x 2 1/2"
4" x 3"	101,6	196,9	31/32W-4"x 3"

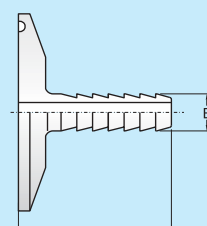
code 32W

Riduzione eccentrica a saldare - Eccentric reducer weld ends

SPECIALTY ITEMS

code 14MPHR

Portagomma clamp - Clamp rubber hose

size	A	B	code
1/2"	28,0	12,7	14MPHR-1/2"
3/4"	32,0	19,05	14MPHR-3/4"
1"	45,0	25,4	14MPHR-1"
1 1/2"	45,0	38,1	14MPHR-1 1/2"
2"	60,0	50,8	14MPHR-2"
2 1/2"	65,0	63,5	14MPHR-2 1/2"
3"	80,0	76,2	14MPHR-3"
4"	90,0	101,6	14MPHR-4"
size	A	B available	code
1/2"	28,0	5-6-7-8-9 10-12-12,7-13,7	14MPHRS-1/2"
1"	38,0	6-7-8-9-10-12,7 13,7-17-19-21,3	14MPHRS-1"
1 1/2"	38,0	30-32-40	14MPHRS-1 1/2"
2"	38,0	6-7-8-9-10-12,7-13,7-17-19 21,3-25,4-30-32-38,1-40	14MPHRS-2"

code 14MPHRS

Portagomma clamp speciali -
Special clamp rubber hose

Ask for sizes not shown in this brochures.



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