I. Declaration Information I. David H. Peace In this space, show facsimile of		1.01		Statutor	v Declaration	(Perdetration of	Eittinge	Website: ww
I. Declaration Information I, David H. Peace Vice President of Engineering (company life, a.g. vice president, plant manager, chief engineer) (must be in a position of authority in the manufacturing plant where the fitting is produced) of: Swagelok Company (name of manufacturer) Solon, Ohio located at: 29500 Solon Road (See Attachment A) Solon, Ohio 44139-3492 (Plant Address - Apt/See Q) (Ohy Prov) (Plant Address - Apt/See Q) (Ohy Prov) (Comply with the requirements of ASME B31.1 and ASME B31.3 (Be of recognized North American Standard) which specifies the dimension (Be of recognized North American Standard) Materials of construction, pressure / temperature ratings and identification marking of the fittings, or Are not covered by the provisions of a recognized North American standard and are therefore manufactu to comply with as supported by the attac data which identifies the dimensions, materials of construction, pressure / temperature ratings and the ba for such ratings, and the marking of the fittings is controlled by a quality control program which has been verified by the following authority. The British Standards Institution as being suitable for the manufacture of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are category A Type Pittings In support of this application, the following information, calculations and / or test data are attached: ISO 9001:2008 Certificate, Catalog Information, Support Documents, At				Statutor	y Declaration	(registration of	ritunga	T
Image: the second se	I. De	eclarat	ion Inforr	nation				· · ·
Vice President of Engineering seper on the fitting. (company tific e.g., vice president, plant manager, chief angineer) (must be in a pushion of authority in the manufacturing plant where the fitting is produced) of: Suvagelok Company (name of manufacturer) located at: 29500 Solon Road (See Attachment A) Solon, Ohio 44139-3492 (Plant Address – Apt/Steet) (Clay, Frow) (Postal Code) do solemnly declare that the fittings listed hereinunder, which are subject to the Saskatchewan Boiler and Prevessel Safety Act (check one) (Plant Address – Apt/Steet) (Clay, Frow) (Postal Code) © Comply with the requirements of ASME B31.1 and ASME B31.3 which specifies the dimension (fitte of recognized North American Standard) which specifies the dimension (fitte of recognized North American standard and are therefore manufactu to comply with dentifies the dimensions, materials of construction, pressure / temperature ratings and identification. as supported by the attace data which identifies the dimensions, materials of construction, pressure / temperature ratings and the bas for such ratings, and the marking of the fittings is controlled by a quality control program which has been verified by the following authority. The British Standards Institution as being suitable for the manufact of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Category A Type Fittings In support of this application, the following information, calculations and / or test data are attached: <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>In this space, show facsimile of</th>								In this space, show facsimile of
(must be in a position of authority in the manufacturing plant where the fitting is produced) Image: Company (ref: Suvagelok Company (name of manufacturer) located at: 29500 Solon Road (See Attachment A) Solon, Ohio 44139-3492 (Plant Address – Apt/Steed) (City, Prov) (Postal Code) do solemnly declare that the fittings listed hereinunder, which are subject to the Saskatchewan Boiler and Prevenue Safety Act (check one) which specifies the dimension (Iffle of recognized North American Standard) which specifies the dimension marking of the fittings, or Are not covered by the provisions of a recognized North American standard and are therefore manufacture to comply with as supported by the attacd data which identifies the dimensions, materials of construction, pressure / temperature ratings and the bas for such ratings, and the marking of the fittings for identification. I further declare that the manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority. The British Standards Institution as being suitable for the manufactor	v	lice Pres	dent of Engi	neering				manufacturer's logo or tradema appear on the fitting.
Intermediation Inter	-		(company tit	le, e.g. vice president, pl				Swaad
Iocated at: 29500 Solon Road (See Attachment A) Solon, Ohio 44139-3492 (Plant Address – Apt/Steet) (City, Prov) (Postal Code) do solemnly declare that the fittings listed hereinunder, which are subject to the Saskatchewan Boiler and Prevessel Safety Act (check one) (Comply with the requirements of ASME B31.1 and ASME B31.3	of: S	-				· ·		Owagen
(Plant Address – Apt/Street) (City, Prov) (Postal Code) do solemnly declare that the fittings listed hereinunder, which are subject to the Saskatchewan Boiler and Prevent Vessel Safety Act (check one) (City, Prov) (Which specifies the dimension for the saskatchewan Boiler and Prevent Safety Act (check one) Image: Comply with the requirements of ASME B31.1 and ASME B31.3 (Title of recognized North American Standard) which specifies the dimension for the saskatchewan Boiler and Prevent Safety Act (check one) Image: Comply with the requirements of Asme Easing and identification marking of the fittings, or Are not covered by the provisions of a recognized North American standard and are therefore manufacture to comply with			20500 8-4	•		Color Ohio		11100 0100
Vessel Safety Act (check one) Comply with the requirements of ASME B31.1 and ASME B31.3 (title of recognized North American Standard) Materials of construction, pressure / temperature ratings and identification marking of the fittings, or Comply with the requirements of ASME B31.1 and ASME B31.3 (title of recognized North American Standard) which specifies the dimensions Materials of construction, pressure / temperature ratings and identification marking of the fittings, or Comply with	locat	ed at:			nment A)			
Comply with the requirements of ASME B31.1 and ASME B31.3	do so	lemnly o	eclare that	the fittings listed h	ereinunder, whic	4	Saskat	· · · · · · · · · · · · · · · · · · ·
(iffle of recognized North American Standard) Materials of construction, pressure / temperature ratings and identification marking of the fittings, or O Are not covered by the provisions of a recognized North American standard and are therefore manufacture to comply with								
Materials of construction, pressure / temperature ratings and identification marking of the fittings, or O Are not covered by the provisions of a recognized North American standard and are therefore manufacture to comply with as supported by the attact data which identifies the dimensions, materials of construction, pressure / temperature ratings and the bas for such ratings, and the marking of the fittings for identification. I further declare that the manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority. The British Standards Institution as being suitable for the manufacture of these fittings covered by this declaration, for which I seek registration, are Category A Type Fittings In support of this application, the following information, calculations and / or test data are attached: ISO 9001:2008 Certificate, Catalog Information, Support Documents, Attachment B II. Declaration DECLARED before me at this 2nd day of 1 any	o	Comple	with the re				_ which	specifies the dimensions
to comply with		Materia	als of constru	uction, pressure / t	temperature ratin	gs and identification	on markir	ng of the fittings, or
data which identifies the dimensions, materials of construction, pressure / temperature ratings and the ball for such ratings, and the marking of the fittings for identification. I further declare that the manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority. <u>The British Standards Institution</u> as being suitable for the manufact of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Category A Type Fittings In support of this application, the following information, calculations and / or test data are attached: ISO 9001:2008 Certificate, Catalog Information, Support Documents, Attachment B II. Declaration DECLARED before me at this <u>Drid</u> day of <u>Juny</u> <u>Janie L Ristau</u> <u>Resident Portige Coany</u> <u>Kotary Pablic, State of Obio</u> <u>Kromy Pablic</u> , State of Obio <u>Kromy Pablic</u> , State of Obio <u>Kromy Pablic</u> , State of Obio <u>Kromy Pablic</u> ,	0	Are no	covered by	the provisions of	a recognized No	th American stand	ard and	are therefore manufactu
for such ratings, and the marking of the fittings for identification. I further declare that the manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority. The British Standards Institution as being suitable for the manufactor of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Category A Type Fittings In support of this application, the following information, calculations and / or test data are attached: ISO 9001:2008 Certificate, Catalog Information, Support Documents, Attachment B II. Declaration DECLARED before me at								
I further declare that the manufacturer of these fittings is controlled by a quality control program which has been verified by the following authority. The British Standards Institution as being suitable for the manufactor of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Category A Type Fittings In support of this application, the following information, calculations and / or test data are attached: ISO 9001:2008 Certificate, Catalog Information, Support Documents, Attachment B II. Declaration DECLARED before me at this application day of the day of this application day of this application day of this application day of this application day of the da							/ temper	rature ratings and the ba
verified by the following authority, The British Standards Institution as being suitable for the manufact of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Category A Type Fittings In support of this application, the following information, calculations and / or test data are attached: ISO 9001:2008 Certificate, Catalog Information, Support Documents, Attachment B II. Declaration DECLARED before me at Solon In the Stote data of day of July Jamie L Ristau (print name) Kitting Public, State of Ohio Wy Commission Expires Outly Notary Public, State of Ohio Wy Commission Expires 03/65/2019		for suc	h ratings, an	d the marking of t	he fittings for ide	ntification.		
of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are Category A Type Fittings In support of this application, the following information, calculations and / or test data are attached: ISO 9001:2008 Certificate, Catalog Information, Support Documents, Attachment B II. Declaration DECLARED before me at			re that the r	nanuracturer of the	ese fittings is con	trolled by a quality	control p	program which has been
In support of this application, the following information, calculations and / or test data are attached: ISO 9001:2008 Certificate, Catalog Information, Support Documents, Attachment B II. Declaration DECLARED before me at <u>Solon</u> In the <u>State</u> <u>Manie</u> <u>L</u> <u>Ristau</u> (print name) <u>Restaut Porage County</u> <u>Notary Public, State of Ohio</u> My Commission Expires: 03/66/2019								-
ISO 9001:2008 Certificate, Catalog Information, Support Documents, Attachment B II. Declaration DECLARED before me at Solon In the State Multiple this 2nd day of Jamie L Ristau , 2014 Anno Lamie L. Ristau Restaut Portage Coality (Signature) (Signature)	verifie of the	ed by the	following a s to the stat	uthority, The Britis	sh Standards Instit	ution	as being	suitable for the manufac
II. Declaration DECLARED before me at	verifie of the	ed by the	following a s to the stat	uthority, The Britis	sh Standards Instit	ution	as being	suitable for the manufac
DECLARED before me at <u>Solon</u> In the <u>State</u> of Onio this <u>Ind</u> day of <u>July</u> <u>Jamie L Ristau</u> (print name) <u>Restaut Portuge County</u> (contribution State of Osio Woomy Solic, State of Osio Woomy Solic, State of Osio Woomy Solic, State of Osio	verifie of the Categ	ed by the se fitting jory A Typ	following a to the state Fittings	uthority, The Britis and standard. The	sh Standards Institu fittings covered	ution by this declaration	as being for whic	suitable for the manufac h I seek registration, are
DECLARED before me at <u>Solon</u> In the <u>State</u> <u>Anio</u> this <u>And</u> day of <u>July</u> <u>Jamie L Ristau</u> <u>Jamie L Ristau</u> <u>Bestiant Portuge County</u> (print name) <u>Ristau Portuge County</u> <u>Notary Public, State of Osio</u> <u>Wy Commission Expires: 03/67/2019</u> (Signature)	verifie of the Categ	ed by the se fitting ory A Ty oport of f	following a s to the state of Fittings his application	uthority, <u>The Britis</u> ted standard. The	sh Standards Institut fittings covered	tion by this declaration lations and / or tes	as being for whic t data ar	suitable for the manufac h I seek registration, are e attached:
DECLARED before me at <u>Solon</u> In the <u>State</u> <u>Anio</u> this <u>And</u> day of <u>July</u> <u>Jamie L Ristau</u> <u>Jamie L Ristau</u> <u>Bestiant Portuge County</u> (print name) <u>Ristau Portuge County</u> <u>Notary Public, State of Osio</u> <u>Wy Commission Expires: 03/67/2019</u> (Signature)	verifie of the Categ	ed by the se fitting ory A Ty oport of f	following a s to the state of Fittings his application	uthority, <u>The Britis</u> ted standard. The	sh Standards Institut fittings covered	tion by this declaration lations and / or tes	as being for whic t data ar	suitable for the manufac h I seek registration, are e attached:
DECLARED before me at <u>Solon</u> In the <u>State</u> of Onio this <u>Ind</u> day of <u>July</u> <u>Jamie L Ristau</u> (print name) <u>Restaut Portuge County</u> (contribution State of Osio Woomy Solic, State of Osio Woomy Solic, State of Osio Woomy Solic, State of Osio	verifie of the Categ	ed by the se fitting ory A Ty oport of f	following a s to the state of Fittings his application	uthority, <u>The Britis</u> ted standard. The	sh Standards Institut fittings covered	tion by this declaration lations and / or tes	as being for whic t data ar	suitable for the manufac h I seek registration, are e attached:
this 2nd day of July Jamie L. Ristau Jamie L. Ristau Beediate Portage County (print name) Kotary Public, State of Ohio My Commission Expires 03/68/2019	verifie of the Categ In sup ISO	ed by the se fitting ory A Typ oport of 1 9001:2	following a sto the stat Pittings his applicati 008 Certif	uthority, <u>The Britis</u> ted standard. The	sh Standards Institut fittings covered	tion by this declaration lations and / or tes	as being for whic t data ar	suitable for the manufac h I seek registration, are e attached:
Jamie L. Ristau (print name) Samue Spyan Kotany Public, State of Obio No compute Spyan Kotany Public, State of Obio No compute Spines 03/66/2019	verifie of the Categ In sup ISO	ed by the se fitting opport of t 9001:2	following a s to the stat pe Fittings his applicati 008 Certif	uthority, The Britis ted standard. The on, the following in ficate, Catalog	sh Standards Institu fittings covered nformation, calcu Information, S	ution by this declaration lations and / or tes upport Docume	as being for whic t data ar	suitable for the manufac h I seek registration, are e attached: achment B
(print name) Restant Portige County (Signature) T Kotary Public, State of Obio NY Commission Express 03:66/2019	verifie of the Categ In sup ISO	ed by the se fitting jory A Typ oport of 1 9001:2 eclara ARED to	following a sto the stat pe Fittings his applicati 008 Certif	uthority, <u>The Briti</u> ted standard. The ion, the following in ficate, Catalog	sh Standards Institu fittings covered nformation, calcu Information, S	ution by this declaration lations and / or tes upport Docume	as being for whic t data ar	suitable for the manufac h I seek registration, are e attached: achment B
Kotary Public, State of Obio No Commission Expires: 03/06/2019	verifie of the Categ In sup ISO II: D DECL this	ed by the se fitting opy A Typ oport of f 9001:2 eclara ARED to 2 n d	tollowing a sto the stat pe Fittings his application 008 Certife tion tion day of day of	uthority, <u>The Briti</u> ted standard. The ion, the following in ficate, Catalog	sh Standards Institu fittings covered nformation, calcu Information, S	ution by this declaration lations and / or tes upport Docume	as being for whic t data ar	suitable for the manufac h I seek registration, are e attached: achment B
	ISO	ed by the se fitting opy A Typ oport of 1 9001:2 eclara ARED to $2n^{1}$ $M_{1} \in 1$	tollowing a sto the stat pe Fittings his application 008 Certife tion tion day of day of	uthority, The Britished standard. The contract of the following in ficate, Catalog $\int \frac{Solow}{July}$	sh Standards Institu fittings covered Information, calcu Information, S	ution by this declaration lations and / or tes upport Docume State	as being for whic t data ar	suitable for the manufac h I seek registration, are e attached: achment B
	ISO	ed by the se fitting opy A Typ oport of 1 9001:2 eclara ARED to Dr.d. miname	tollowing a sto the stat pe Fittings his application 008 Certife tion tion day of day of	uthority, <u>The Briti</u> ted standard. The ion, the following in ficate, Catalog	sh Standards Institu fittings covered information, calcu Information, S In the Jamie L. Ristau Restiant Portage County Any Public, State of Obio	ution by this declaration lations and / or tes upport Docume <u>Stocte</u> , <u>Joly</u>	as being for whic t data ar	suitable for the manufac h I seek registration, are e attached: achment B
	ISO	ed by the se fitting oprive of 1 9001:2 eclara ARED to Drid Mile from mature of C	tollowing a sto the stat pe Fittings his applicati 008 Certif 008 Certif ton day of 	uthority, <u>The Britis</u> ted standard. The on, the following in ficate, Catalog July	sh Standards Institu fittings covered information, calcu Information, S In the Jamie L. Ristau Restiant Portage County Any Public, State of Obio	ution by this declaration lations and / or tes upport Docume <u>Stocte</u> , <u>Joly</u>	as being for whic t data ar	suitable for the manufac h I seek registration, are e attached: achment B
	ISO	ed by the se fitting opry A Typ oport of 1 9001:2 eclara ARED to Drd Mile I min name) mile of C	tion	uthority, <u>The Briti</u> ted standard. The ted standard. The ion, the following in ficate, Catalog Licity Juity Mo Oathe	sh Standards Institu fittings covered information, calcu Information, S In the Jame L. Ristau Restant Portage County tary Public, State of Obio maission Expires: 03/66/	ution by this declaration lations and / or tes upport Docume Stote , <u>Jonu</u> (Signature)	as being for which at data ar nts, Att	suitable for the manufac h I seek registration, are e attached: achment B
To the best of my knowledge and belief, the application meets the requirements of the Boller and Pressure Vessel Safety CSA B51, Clause 4.2, and is accepted for registration in Category	ISO	ed by the se fitting opry A Typ oport of 1 9001:2 eclara ARED to 2nd mile from mature of co iffice U	tollowing a sto the stat pe Fittings his applicati 008 Certif 008 Certif tion day of Risha day of Se Only ny knowledge	uthority, <u>The Briti</u> ted standard. The ted standard. The ion, the following in ficate, Catalog Licity Juity No boots and belief, the app accepted for register	sh Standards Institu fittings covered information, calcu Information, S In the Jamie L. Ristau Restian Portage County Any Public, State of Oxid maission Expires: 03/66/	ution by this declaration lations and / or tes upport Docume Stote , <u>Jonu</u> (Signature)	as being for which at data ar nts, Att	suitable for the manufac h I seek registration, are e attached: achment B
To the best of my knowledge and belief, the apgration meets the requirements of the Boiler and Pressure Vessel Safety CSA B51, Clause 4.2, and is accepted for registration in Category	ISO	ed by the se fitting opry A Typ oport of 1 9001:2 eclara ARED & Drd Mile M mature of C instare of C instare of C instare of C instare of C	tollowing a sto the stat pe Fittings his applicati 008 Certif 008 Certif tion day of R Sha Complesioner of se Only ny knowledge se 4.2, and is	and belief, the apple	sh Standards Institu fittings covered information, calcu Information, S In the Jame L. Ristau Resident Portage County tary Public, State of Olic maission Expires: 03/66/ Cation meets the Intion in Category 8	ution by this declaration lations and / or tes upport Docume <u>Shake</u> , <u>Jonu</u> (Signature) 2019	as being for which at data ar nts, Att	suitable for the manufac h I seek registration, are e attached: achment B
To the best of my knowledge and belief, the apartation meets the requirements of the Boiler and Pressure Vessel Safety CSA B51, Clause 4.2, and is accepted for registration in Category	ISO	ed by the se fitting opry A Typ oport of 1 9001:2 eclara ARED & Drd Mile M mature of C instare of C instare of C instare of C instare of C	tion day of <i>Be Only</i> <i>Be Only</i>	and belief, the apple	sh Standards Institu fittings covered information, calcu Information, S In the Jamie L. Ristau Restant Portage County Any Public, State of Olic maission Expires: 03/66/ Cation meets the retion in Category	ution by this declaration lations and / or tes upport Docume State , <u>JOIU</u> (Signature) 2019 equirements of the f	as being for which at data ar nts, Att Date Boiler and (1)	suitable for the manufac h I seek registration, are e attached: achment B
To the best of my knowledge and belief, the application meets the requirements of the Boiler and Pressure Vessel Safety CSA B51, Clause 4.2, and is accepted for registration in Category (Registration Number 5 5 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ISO	ed by the se fitting opry A Typ oport of 1 9001:2 eclara ARED & Drd Mile M mature of C instare of C instare of C instare of C instare of C	tion tion tion tion tion tion tion tion	accepted for register	sh Standards Institu fittings covered Information, calcu Information, S In the Jamie L. Ristau Restian Portage County tary Public, State of Older maission Expires: 03/66/ Cation meets the in- stion in Category (Date for (For the	ution by this declaration lations and / or tes upport Docume State , <u>JOIU</u> (Signature) 2019 equirements of the f	as being for which at data ar nts, Att Date Boiler and (1)	suitable for the manufac h I seek registration, are e attached: achment B
To the best of my knowledge and belief, the approximation meets the requirements of the Boiler and Pressure Vessel Safety CSA B51, Clause 4.2, and is accepted for registration in Category (Registration Number 5 5 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ISO	ed by the se fitting opry A Typ oport of 1 9001:2 eclara ARED & Drd Mile M mature of C instare of C instare of C instare of C instare of C	tion tion tion tion tion tion tion tion	accepted for register	sh Standards Institu fittings covered Information, calcu Information, S In the Jamie L. Ristau Restian Portage County tary Public, State of Older maission Expires: 03/66/ Cation meets the in- stion in Category (Date for (For the	ution by this declaration lations and / or tes upport Docume State , <u>JOIU</u> (Signature) 2019 equirements of the f	as being for which at data ar nts, Att Date Boiler and (1)	suitable for the manufac h I seek registration, are e attached: achment B
To the best of my knowledge and belief, the approximation meets the requirements of the Boiler and Pressure Vessel Safety CSA B51, Clause 4.2, and is accepted for registration in Category (Registration Number 5 5 7 6 9 9 6 (Date Registered – MM DD YYYY) (Expiry Date – MM DD YY	III. O To the Catego In sup ISO	ed by the se fitting opry A Typ oport of 1 9001:2 eclara ARED & Drd Mile M mature of C instare of C instare of C instare of C instare of C	tion tion tion tion tion tion tion tion	accepted for register	sh Standards Institu fittings covered Information, calcu Information, S In the Jamie L. Ristau Restaut Portage County tary Public, State of Older maission Expires: 03/66/ Cation meets the of Sector of County (Date of For the Sector of County of County (Date of For the Sector of County of County of County (Date of For the Sector of County	ution by this declaration lations and / or tes upport Docume State , <u>JOIU</u> (Signature) 2019 equirements of the f	as being for which at data ar nts, Att Date Boiler and (1)	suitable for the manufac h I seek registration, are e attached: achment B Market B A Pressure Vessel Safety / (Expiry Date – MM DD YY)
To the best of my knowledge and belief, the approximation meets the requirements of the Boiler and Pressure Vessel Safety CSA B51, Clause 4.2, and is accepted for registration in Category (Registration Number 5 5 1 6 6 7 1	III. O To the Catego In sup ISO II. D DECL this Sup Catego Catego II. D DECL this Catego II. D DECL this Catego II. C Catego II. SO DECL To the Catego II. SO	ed by the se fitting opry A Typ oport of 1 9001:2 eclara ARED & Drd Mile M mature of C instare of C instare of C instare of C instare of C	tion tion tion tion tion tion tion tion	accepted for register	sh Standards Institu fittings covered Information, calcu Information, s In the Janie L. Ristau Resident Portage County tany Public, State of Olik maission Expires: 03/66/ Cation meets the fittion in Category (Date fit	ution by this declaration lations and / or tes upport Docume State , <u>JOIU</u> (Signature) 2019 equirements of the f	as being for which at data ar nts, Att Date Boiler and (1)	suitable for the manufac h I seek registration, are e attached: achment B

<u>Attachment B. Scope of Registration for Swagelok Stainless Steel</u> <u>Tube Fittings (Category A)</u>

This document represents the scope of Swagelok Stainless Steel Tube Fittings covered by this submission for CRN approval. These Swagelok Tube Fittings have been evaluated in accordance with ASME B31.1-2010 for unlisted components and ASME B31.3-2010 for unlisted components. The minimum temperature rating is -20°F for B31.1 applications.

Summary Table

Product		Port	Maximum Working	Design Code	
Description or Series	Material	Connections and Sizes	<u>-60°F_to</u> <u>100°F</u>	At 1200°F	of Construction
Gaugeable Tube Fittings and Adapter Fittings	316 Stainless Steel	Swagelok End Connection 1/16 - 2 inch (Fractional) 3mm - 50 mm (Metric)	See Table on Page 2	See Table on Page 2	ASME B31.3 (Unlisted Components) ASME B31.1 (Unlisted Components)

Stainless Steel Swagelok Tube Fitting Pressure Rating Table

Swagelok End	Maximum Allowable Working Pressure (1)				
Connection Size	-60°F to 100°F	At maximum temperature 1200°F (648.90°C)			
1/16	12 000 psig	3840 psig			
1/8	10 900 psig	3488 psig			
3/16	10 200 psig	3264 psig			
1/4	10 200 psig	3264 psig			
5/16	8 000 psig	2560 psig			
3/8	7500 psig	2400 psig			
1/2	6700 psig	2144 psig			
5/8	6000 psig	1920 psig			
3/4	5800 psig	1856 psig			
7/8	4800 psig	1536 psig			
1	4700 psig	1504 psig			
1 1/4	4800 psig	1536 psig			
1 1/2	4900 psig	1568 psig			
2	3600 psig	1152 psig			
3 mm	670 bar	214 bar			
6 mm	710 bar	227 bar			
8 mm	520 bar	166 bar			
10 mm	580 bar	185 bar			
12 mm	470 bar	150 bar			
14 mm	430 bar	137 bar			
15 mm	400 bar	128 bar			
16 mm	400 bar	128 bar			
18 mm	370 bar	118 bar			
20 mm	380 bar	121 bar			
22 mm	340 bar	108 bar			
25 mm	320 bar	102 bar			
28 mm	330 bar	105 bar			
30 mm	310 bar	99 bar			
32 mm	330 bar	105 bar			
38 mm	310 bar	99 bar			
50 mm	270 bar	86 bar			

Note (1): Values based on thickest wall tubing. Thinner tubing may be used but in all cases the ratings are less than, or equal to, those shown in the table.

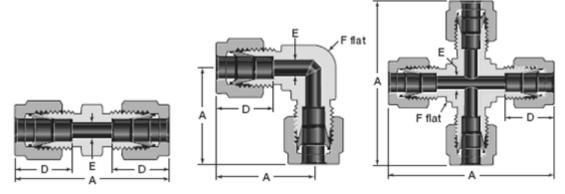
Product Description

Swagelok Fittings are furnished in a variety of configurations and shapes (straight, elbow, tee or cross). Swagelok Fittings consist of at least one Swagelok End – a two-ferrule mechanical-grip design. The Swagelok end is a proprietary design, and the assembly consists of Swagelok body, nut, front and back ferrule (see detail). The table above, as well as the "Configurations" section, covers a variety of other end connections.

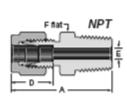


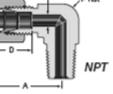
Configurations

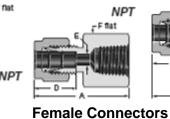
1. Unions.

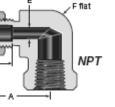


2. Male and Female connectors / adapters.

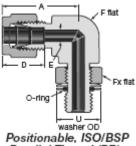




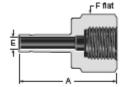




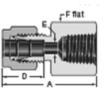
NPT Male Connectors



Parallel Thread (PR)



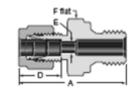
ISO/BSP Parallel Thread (RG, Gauge)



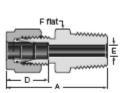
Thread (RT)

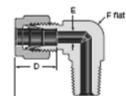
F flat -

ISO/BSP Parallel Thread (RP)

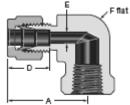


ISO/BSP Parallel Thread (RS)



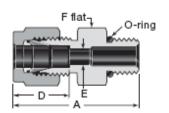


ISO/BSP Tapered Thread (RT) ISO/BSP Tapered Thread (RT)

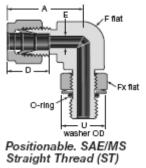


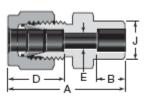
ISO/BSP Tapered Female ISO/BSP Tapered Female Thread (RT)

June 26, 2014

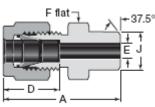


SAE/MS Straight Thread Stud (ST)

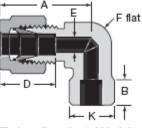




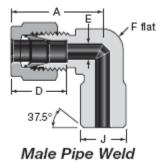
Tube Socket Weld

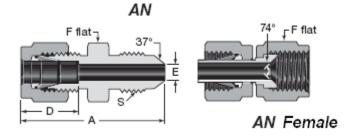


Male Pipe Weld



Tube Socket Weld





(For dimensions see catalog.)

Product Options:

These product options were previously registered under 0A12577.56 (this application enclosed). These options listed below affect pressure and/or temperature ratings shown in the above Summary Table, but in all cases the ratings are less than, or equal to, those shown in the table.

- 1. Bored-Through Fittings.
- 2. RP gaskets:
 - a. Copper
 - b. Nickel
 - c. PTFE
- 3. RS gaskets:
 - a. Metal-and-elastomer bonded
 - b. Non-bonded stainless steel
 - c. Copper
- 4. RG gaskets:
 - a. Copper
 - b. Nickel
 - c. PTFE
- 5. Sealant for tapered pipe threads (NPT and ISO-7):
 - a. Curable resin with PTFE
 - b. PTFE tape

Additional options that do not affect pressure and/or temperature ratings may be made available within the scope of this approval. For fittings not listed in scope table, reference 0A12577.56 (this application is enclosed). Examples of these would include the following:

- 1. Special marking
- 2. Special cleaning
- 3. Wire drills
- 4. Bulkhead configurations
- 5. Snubbers/frits and orifice plates
- 6. Equivalent metric or fractional hex sizes

All of the above options, those that affect pressure and/or temperature ratings and those that do not, are within the scope of this approval.

Quality System

The Swagelok Company quality system complies with the requirements of BS EN ISO 9001:2008. The Swagelok Company maintains British Standards Institution Certificate of Registration Number FM 01729, which applies to all locations listed on the Certificate. The tube fittings and adapter fittings are made at a Swagelok Company location in Solon, Ohio.

References

The product catalog does not represent the full scope of the registration but rather details some of the most common options.

• Gaugeable Tube Fittings and Adapter Fittings MS-01-140, R16