



STATUTORY DECLARATION Registration of Fittings

I, <u>J</u>	oel Feldman	, Vice President of En	aineerina	in this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.		
	(name of applicant)	(position title) (must be in		C		
of _	Swagelok Company			Swadelok		
		(name of manufacturer)		,		
loca	ted at 29500 Solon Road, Solo		achment A)			
do o	olomalis da siasa Abad Aba Fii	(plant address)				
(che	olemnly declare that the fittings ck one)	listed hereunder, which are	subject to the Safety (Codes Act		
	comply with the requirements	of ASME B31.1 and ASME (little of recognized North Ame		pecifies the dimensions,		
	materials of construction, pre-	essure/temperature ratings a	and identification mark	ing of the fittings, or		
	are not covered by the provisions of a recognized North American standard and are therefore manufactured					
	to comply with		as	supported by the attached		
	(title of co	de of construction or other applicat				
	data which identifies the dime	ensions, materials of constru	ction, pressure/tempe	rature ratings and the basis		
	for such ratings, and the mark					
I furt	her declare that the manufacture	e of these fittings is controlle	d by a quality control	program which has been		
	ed by the following authority, BS			for the manufacture of		
uicst	e fittings to the stated standard.	The fittings covered by this	declaration, for which	I seek registration, are		
Cat	egory C Type Fittings					
77		(brief description of fittings)				
in su	pport of this application, the follow	owing information, calculatio	ns and/or test data an	e attached:		
150	9001:2015 Certificate, Attachm	ent A, Attachment B, Catalo	g Information and oth	er Support Documents		
DEC	LARED before me at	in the State	of O	rovince or state)		
-	00,0	(Month) (Year)				
(prin	o house I Ris	tau				
(p	(a Commissioner of Oaths or Not	Jamie L. Ristau ary Public) Resident Portage Cou	mbr			
2010271719	la UD-	Notary Public, State of	Oblo /			
(sign	(a Commissioner of Oaths or Not	my Commission Expires: 03.	106/2000	rell-		
F 1		ary Public)	(signature of	applicant)		
FOF	ABSA Office Use Only:					
NOT	ES:					
To th Stand	e best of my knowledge and bel dard B51, Clause 4.2, and is acc	ief, the application meets the	a requirements of the	Safety Codes Act and CSA		
	stration Number: 0 C 2 1	138 - 52	6 P	of cheer 1		
	Registered: MAY 1 7		piry Date:	e Administrator/SCO)		
The info Pressu	ormation you provide is necessary only for re Equipment Discipline.	the administration of the programs as	required by the Alberta Safe	ty Codes Act and Regulations in the		



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Attachment B: Scope for Swagelok 60 Series Ball Valves (Category C)

This document represents the scope of the 60 Series Ball Valves covered by this submission for CRN approval. The Swagelok 60 Series Ball Valves were designed and evaluated in accordance with ASME B31.1-2016 for unlisted components and ASME B31.3-2016 for unlisted components.

Summary Tables

Summary Table Main Product Pressure		Main Pressure Bearing	Port Connections, Sizes*	Maximum Rated Pressure (Note 1)		Design Code	
Series	Bearing Component	Material	r dit dellinedidita, dizea	At 100°F	At Max Temp	of Construction	
		316SS (ASTM A479 or ASTM A351)	Swagelok Tube Fitting 1/4", 3/8" Female NPT 1/8", 1/4" Female ISO 1/4" Tube Butt Weld 1/4", 3/8" Pipe Butt Weld 1/4", 3/8" Tube Socket Weld 1/4", 3/8" Male VCO Fitting 1/4" Male VCR Fitting 1/4"	3000 psig (4 bolt body) 2500 psig (8 bolt body)	800 psig @450°F (4 bolt body) 200 psig@600°F (8 bolt body)		
62	Body	WCB Carbon Steel (ASTM A216)	Swagelok Tube Fitting 1/4", 3/8" Female NPT 1/8", 1/4" Tube Butt Weld 1/4", 3/8" Pipe Butt Weld 1/4", 3/8" Tube Socket Weld 1/4", 3/8"	3000 psig (4 bolt body) 2500 psig	dy) (4 bolt body) ig 200 psig		
CS				(8 bolt body)			
30	1	Brass C36000 or C35600 (ASTM B16)	Swagelok Tube Fitting 1/4", 3/8" Female NPT 1/8", 1/4"	2000 psig	100 psig @400*F		
SS SS	43 X 2 X 2	Alloy C276 bar (ASTM B574) or CW-12MW Cast (ASTM A494)	Swagelok Tube Fitting 1/4", 3/8" Female NPT 1/4"	1500 psig	1470 psig @150°F		
A NE		Alloy 400 N04400 (ASTM B164)	Swagelok Tube Fitting 1/4", 3/8" Female NPT 1/4"	1500 psig	1470 psig @150°F		
FIT		Titanium Grade 4 UNS R50700 (ASTM B348)	Swagelok Tube Fitting 1/4", 3/8" Female NPT 1/4"	1500 psig	1380 psig @150*F	ASME B31.1 (Unlisted	
REGISTRATION O	HELEK MELL S MO. O'CAT. NO.	316SS (ASTM A479 or ASTM A351)	Swagelok Tube Fitting 1/2", 3/4" Female NPT 3/8", 1/2" Female ISO 1/2" Tube Butt Weld 1/2" Pipe Butt Weld 1/2" Tube Socket Weld 1/2", 3/4" Pipe Socket Weld 1/2" Male VCO Fitting 1/2" Male VCR Fitting 1/2"	2500 psig (4 bolt and 8 bolt bodies) 3000 psig (welded bodies)	800 psig @450°F (4 bolt body) 1000 psig @850°F (8 bolt body) 100 psig @450°F (welded)	Components) and ASME B31.3 (Unlisted Components)	
63	Body	WCB Carbon Steel (ASTM A216)	Swagelok Tube Fitting 1/2", 3/4" Female NPT 3/8", 1/2" Female ISO 1/2" Tube Butt Weld 1/2" Pipe Butt Weld 1/2" Tube Socket Weld 1/2", 3/4" Pipe Socket Weld 1/2"	2500 psig	800 psig @450°F (4 bolt body) 200 psig @800°F (8 bolt body)		
		Brass C36000 or C35600 (ASTM B16)	Swagelok Tube Fitting 1/4", 3/8" Female NPT 1/8", 1/4"	1500 psig	100 psig @400*F		
		Alloy C276 bar (ASTM B574) or CW-12MW Cast (ASTM A494)	Swagelok Tube Fitting 1/2" Female NPT 1/2"	1500 psig	1470 psig @150°F		
		Alloy 400 N04400 (ASTM B164)	Swagelok Tube Fitting 1/2" Female NPT 1/2"	1500 psig	1470 psig @150°F		
		Titanium Grade 4 UNS R50700 (ASTM B348)	Swagelok Tube Fitting 1/2" Female NPT 1/2"	1500 psig	1380 psig @150*F		

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Product	Main Pressure Bearing Component	Main Pressure Bearing Material Port Connections, Siz	Post Coursell Co	Maximum Rated Pressure (Note 1)		Design Code of	
Series			Port Connections, Sizes*	At 100°F	At Max temp	Construction	
	Body	316SS (ASTM A479 or ASTM A351)	Swagelok Tube Fitting 1" Female NPT 3/4", 1" Female ISO 3/4", 1" Pipe Butt Weld 3/4", 1" Tube Butt Weld 3/4", 1" Tube Socket Weld 1" Pipe Socket Weld 3/4", 1"	2500 psig (4 bolt and 8 bolt bodies) 3000 psig (Welded bodies)	800 psig @450°F (4 bolt body) 1000 psig @850°F (8 bolt body) 100 psig @450°F (welded)	ASME B31.1 (Unlisted Components) and ASME B31.3	
65		WCB Carbon Steel (ASTM A216)	Swagelok Tube Fitting 1" Female NPT 3/4", 1" Female ISO 3/4", 1" Pipe Butt Weld 3/4", 1" Tube Butt Weld 3/4", 1" Tube Socket Weld 1" Pipe Socket Weld 3/4", 1"	2500 psig	800 psig @450°F (4 bolt body) 200 psig @800°F (8 bolt body)		
		Brass C36000 or C35600 (ASTM B16)	Swagelok Tube Fitting 1" Female NPT 3/4", 1"	1500 psig	100 psig @400°F		
		Alloy C276 bar (ASTM B574) or CW-12MW Cast (ASTM A494)	Female NPT 1*	1500 psig	1470 psig @150°F		
		Alloy 400 N04400 (ASTM B164)	Swagelok Tube Fitting 1" Female NPT 1"	1500 psig	1470 psig @150°F		
		Titanium Grade 4 UNS R50700 (ASTM B348)	Female NPT 1"	1500 psig	1380 psig @150°F		
67	Body .	316SS (ASTM A479 or ASTM A351)	Swagelok Tube Fitting 1-1/2" Female NPT 1-1/4", 1-1/2" Female ISO 1-1/4" Pipe Butt Weld 1-1/2" Tube Butt Weld 1-1/2" Tube Socket Weld 1-1/4", 1-1/2" Pipe Socket Weld 1-1/4", 1-1/2"	1500 psig (4 bolt body) 2000 psig (8 bolt body)	500 psig @450°F (4 bolt body) 500 psig @850°F (8 bolt body)		
		244	WCB Carbon Steel (ASTM A216)	Swagelok Tube Fitting 1-1/2" Female NPT 1-1/4", 1-1/2" Female ISO 1-1/4" Pipe Butt Weld 1-1/2" Tube Butt Weld 1-1/2" Tube Socket Weld 1-1/4", 1-1/2" Pipe Socket Weld 1-1/4", 1-1/2"	2200 psig	800 psig @450°F (4 bolt body) 200 psig @800°F (8 bolt body)	(Unlisted Components)
	Body	316SS (ASTM A479 or ASTM A351)	Swagelok Tube Fitting 2" Female NPT 2" Female ISO 2" Pipe Butt Weld 2" Tube Butt Weld 2 Tube Socket Weld 2" Pipe Socket Weld 2"	1500 psig (4 bolt body) 2000 psig (8 bolt body)	500 psig @450°F (4 bolt body) 500 psig @850°F (8 bolt body)	0c21138	
68		WCB Carbon Steel (ASTM A216)	Swagelok Tube Fitting 2" Female NPT 2" Female ISO 2" Pipe Butt Weld 2" Tube Butt Weld 2 Tube Socket Weld 2" Pipe Socket Weld 2"	2200 psig (4 bolt body) 2000 psig (8 bolt body)	800 @450°F (4 bolt body) 200 psig @800°F (8 bolt body)		
62, 63, 65 (3-way)	Body	316SS (ASTM A479 or ASTM A351)	Swagelok Tube Fitting 1/4", 3/8", 1/2" Female NPT 1/8", 1/4",1/2", 1" Female ISO 1/4", 1/2, 3/4", 1"	1000 psig	800 psig @450°F		
67, 68 (3-way)	Body	316SS (ASTM A479 or ASTM A351)	Swagelok Tube Fitting 1-1/2" 2" Female NPT 1-1/4", 1-1/2", 2" Female ISO 1-1/4", 1-1/2", 2" Tube Socket Weld 1-1/4", 1-1/2", 2" Pipe Socket Weld 1-1/4", 1-1/2", 2"	500 psig	500 psig @450°F		

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* Fractional port connection sizes shown. Equivalent metric size ranges are also in scope, and have the same pressure/temperature ratings

Note 1: Pressure ratings shown are the maximum possible for the combination of valve series and body material. Seat and flange seals will affect ratings; please refer to product literature.

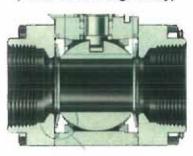
Product Illustration



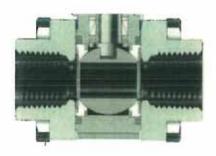
Configurations

The pressure retaining components of the 60 Series ball valve bodies can be categorized into three main types of assemblies based on the method used to attach the flanges to the body:

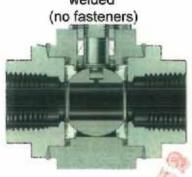
4 bolt (with nuts) (fasteners through body)



8 bolt (fasteners thread into body)



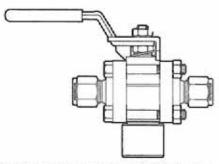
welded



The 4 bolt type assemblies are available in all body materials. The 8 bolt type assemblies are available in Stainless Steel and Carbon Steel only. The welded assemblies are available in Stainless Steel only.

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60 Series 3-Way Valves



3-Way valves are available in the 4-bolt type assembly and Stainless Steel material only.

Product Options:

The product options listed below affect pressure and/or temperature ratings shown in the above Summary Table, but in all cases the ratings are less than those shown in the table.

Flange Seal Material Options

Fluorocarbon, FKM

Buna N

Buna C

Ethylene Propylene

Neoprene

Grafoil

PTFE

Stem Seal Material Options

PTFE, virgin

Fluorocarbon, FKM

Buna C

Ethylene Propylene

Grafoil

PEEK (virgin, coated, or reinforced)

Seat Material Options

PTFE, virgin

PTFE, reinforced

PTFE, carbon glass filled

PEEK (virgin, coated, or reinforced)

UHMWPE

Inconel X-750

Additional options that do not increase the pressure and/or temperature ratings may be made available within the scope of this approval. Examples of these would include the following:

Handle options

Actuators (e.g. pneumatic, electric)

Panel mounting

Low dead space inserts

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.





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Quality System

The Swagelok Company quality system complies with the requirements of ISO 9001:2015. The Swagelok Company maintains BSI Certificate of Registration Number FM 01729, which applies to all locations listed on the Certificate.

References

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

60 Series Ball Valve Catalog MS-01-146, Rev U



Attachment A. Swagelok Manufacturing Locations

This document lists the Swagelok locations where end item or component level manufacturing activities take place.

Swagelok Company	Swagelok Company (Falon 1)
29500 Solon Road	348 Bishop Road
Solon, Ohio 44139	Highland Heights, Ohio 44143
USA	USA
Swagelok Company (Highland)	Swagelok Company (Falon 2)
318 Bishop Road	358 Bishop Road
Highland Heights, Ohio 44143	Highland Heights, Ohio 44143
USA	USA
Swagelok Company (OFC)	Swagelok Company (HPF)
29495 F.A. Lennon Drive	6050 Cochran Road
Solon, Ohio 44139	Solon, Ohio 44139
USA	USA
Swagelok Company (Atlantic)	Swagelok Company (Snow Metal)
26651 Curtiss Wright Parkway	6060 Cochran Road
Willoughby Hills, Ohio 44092	Solon, Ohio 44139
USA	USA
Swagelok Company (Micro) 26653 Curtiss Wright Parkway Willoughby Hills, Ohio 44092 USA	Swagelok Company (Alfred) 29500 Ambina Drive Solon, Ohio 44139
Swagelok Hose Services Company (SHSC)	Swagelok Company (Strongsville)
29900 Solon Industrial Parkway	15400 Foltz Road
Solon, Ohio 44139	Strongsville, Ohio 44119
Swagelok (China) Fluid System Technologies Ltd.	Swagelok Limited
Changshu Export Process Zone	Ballafletcher Road
Changshu Economic Development Zone	Tromode
Changshu, Jiangshu	IM4 4RA
215513 China	Isle of Man

