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MANUFACTURERS NAM	AE: Swagelok Company		
MANUFACTURERS ADD		Solon, Ohio 44139-3492	
PLANT LOCATIONS: I	leadquarters: 29500 Solon R	Road, Solon, Ohio 44139-3492 (See	Attachment A)
CATEGORY O	F FITTINGS TO BE REGISTERED	CIRCLE ONE CATEGORY ONLY	TILLE OF THE STANDARD OF CONSTRUCTION
A Pipe fillings, including	couplings, tees, sloows, Ys, plugs,		
		chions, pipe caps, or reducers	British Standards Institution
Valves: all line valves D Expansion joints, flavil	ble connactions, and hose assembl	last all history	
E Strainers, filters, separ	ators, and steam trans	CONTRACTOR STATISTICS	
F Measuring devices, inc pressure transmitters	luding pressure gauges, level gaug	jos, sight glasses, levels, or	
G Certified capacity-rate	d pressure relief devices accoptable	e as primary over pressure protection on	
DOUGLE, DIGRADIO AGER	819. DIDIDO 900 103/010 DIDOS		
N Nuclear components	nponents that do not fall into one of	the above catagories	
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		Documents, Attachment B, Catalog Info	
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Attachment B1. Scope for Swagelok Special Alloy 60 Series Ball Valves (Category C)

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

Summary Table

Product	Main Pressure	Main Pressure	Port Connections and	Maximum Rated Pressure		Design Code of
Description or Series	Bearing Component	Bearing Material (Standard)	Sizes	At ambient temperature	At maximum temperature	Construction
		Stainless Steel 6MO (ASTM A276 UNS S31254)	Swagelok Tube Fitting 1/2" Female NPT 1/2"	2,200 psi @ 100 ⁰ F	100 psi @ 450 ^º F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
63		Stainless Steel 2507 (ASTM A479 UNS S32750)	Swagelok Tube Fitting 1/2" Female NPT 1/2"	2,200 psi @ 100 ⁰ F	100 psi @ 450 ^º F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
63	Body	Alloy 825 (ASTM B425 UNS N08825)	Swagelok Tube Fitting 1/2" Female NPT 1/2"	2,200 psi @ 100 ⁰ F	100 psi @ 450 ⁰ F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
		Alloy 625 (ASTM B446 UNS N06625)	Swagelok Tube Fitting 1/2" Female NPT 1/2"	2,200 psi @ 100 ⁰ F	100 psi @ 450 ^º F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)

For more information about pressure ratings of valves with tube fitting end connections, see Swagelok Tubing Data, MS-01-107.



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

Seat Material Options

PTFE, virgin PTFE, reinforced PTFE, carbon glass filled PEEK UHMWPE

Additional options and non-pressure boundary alterations that do not affect pressure-temperature ratings may be made available within the scope of this registration. 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.

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 Special Alloy 60 Series Ball Valves products are made at a Swagelok Company location in Solon, Ohio.

References

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

• 60 Series Ball Valves – Special-Alloy Fluid System Components Catalog MS-02-439

Attachment B2. Scope for Swagelok Special Alloy 83 Series Ball Valves (Category C)

This document represents the scope of the Swagelok Special Alloy 83 Series Ball Valves covered by this submission for CRN approval. The Swagelok Special Alloy 83 Series Ball Valves were designed and evaluated in accordance with ASME B31.1 for unlisted components and ASME B31.3 for unlisted components.

Summary Table

Produc	t Main Pressure	Main Pressure	Port Connections and	Maximum Rated Pressure		Design Code of
Descript or Serie	ion Bearing	Bearing Material (Standard)	Sizes	At ambient temperature	At maximum temperature	Construction
83	Dedu	Stainless Steel 2507 (ASTM A479 UNS S32750)	Swagelok Tube Fitting 1/4", 3/8", 1/2", 6MM, 8MM, 10MM, 12MM Female NPT 1/8", 1/4", 1/2"	6,000 psi @ 100 ⁰ F	500 psi @ 450 ⁰ F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
83	Body	Alloy 825 (ASTM B425 UNS N08825)	Swagelok Tube Fitting 1/4", 3/8", 1/2", 6MM, 8MM, 10MM, 12MM Female NPT 1/8", 1/4", 1/2"	6,000 psi @ 100 ⁰ F	500 psi @ 450 ⁰ F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)

For more information about pressure ratings of valves with tube fitting end connections, see Swagelok Tubing Data, MS-01-107.



Product Options

Additional options that do not affect pressure-temperature ratings may be made available within the scope of this registration. Examples of these would include 3-way valves, seat materials, stem seal materials, actuators.

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. Special Alloy 83 Series Ball Valves products are made at a Swagelok Company location in Solon, Ohio.

References

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

• 83 Series Ball Valves – Special-Alloy Fluid System Components Catalog MS-02-357

Attachment B3. Scope for Swagelok Specal Alloy Bleed Valves (Category C)

This document represents the scope of the Swagelok Special Alloy Bleed Valves covered by this submission for CRN approval. The Swagelok Special Alloy Bleed Valves were designed and evaluated in accordance with ASME B31.1 for unlisted components and ASME B31.3 for unlisted components.

Summary Table

Product	Main Pressure	Main Pressure	Port Connections and	Maximum Rated Pressure		Design Code of
Description or Series	Bearing Component	Bearing Material Sizes		At ambient temperature	At maximum temperature	Construction
		Stainless Steel 2507 (ASTM A479 UNS S32750)	Male NPT 1/4", 3/8", 1/2"	10,000 psi @ 100 ^º F	8,965 psi @ 482 ⁰ F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
51/	Dedu	Alloy 625 (ASTM B446 UNS N06625)	Male NPT 1/4", 3/8", 1/2"	10,000 psi @ 100 ^º F	7,490 psi @ 850 ⁰F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
BA	BV Body	Alloy 825 (ASTM B425 UNS N08825)	Male NPT 1/4", 3/8", 1/2"	10,000 psi @ 100 ⁰ F	7,295 psi @ 850 ^o F (Note 1)	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
		Hastelloy C (ASTM B574 UNS N10276)	Male NPT 1/4", 3/8", 1/2"	10,000 psi @ 100 ⁰ F	6,155 psi @ 850 ^⁰ F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)

Notes:

(1) For ASME B31.1 applications, this product is rated to 7,295 psi @ 800°F.



Typical Product Characteristics:

Some of the product options listed below affect the pressure-temperature ratings shown in the Summary Table, but in all cases the ratings are less than those shown in the Summary Table. All of the following options are within the scope of this registration:

Typical Options Handles Vent Tubes

Additional options and non-pressure boundary alterations that do not affect pressure-temperature ratings may be made available within the scope of this registration. Examples of these would include handle options, actuator options, etc.

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 Special Alloy Bleed Valves products are made at a Swagelok Company location in Solon, Ohio.

References

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

• BV Bleed Valves - Special Alloy Materials Catalog MS-02-356

Attachment B4. Scope for Swagelok Special Alloy CH Series Check Valves (Category C)

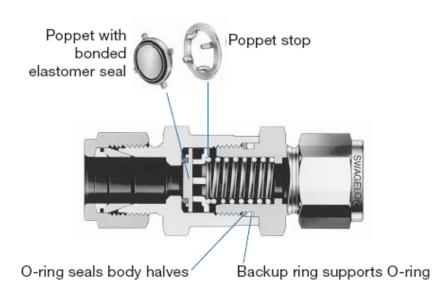
This document represents the scope of the Swagelok Special Alloy CH Series Check Valves covered by this submission for CRN approval. The Swagelok Special Alloy Check Valves were designed and evaluated in accordance with ASME B31.1 for unlisted components and ASME B31.3 for unlisted components.

Summary Table

Product	Main Pressure	Main Pressure	Port Connections and	Maximum Rated Pressure		Design Code of
Description or Series	Bearing Component	Bearing Material (Standard)	Sizes	At ambient temperature	At maximum temperature	Construction
		Alloy 625 (ASTM B446 UNS N06625)	Swagelok Tube Fitting 1/4", 3/8", 1/2" Female NPT 1/4", 3/8", 1/2" Male NPT 1/4", 3/8", 1/2"	6,000 psi @ 100 ⁰F	5070 psi @ 400 ⁰ F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
СН	CH Body Alloy 825 (ASTM B425 UNS N08825) Stainless Steel 2507 (ASTM A479 UNS S32750)	(ASTM B425	Swagelok Tube Fitting 1/4", 3/8", 1/2" Female NPT 1/4", 3/8", 1/2" Male NPT 1/4", 3/8", 1/2"	6,000 psi ① @ 100 ⁰ F	4995 psi @ 400 ^º F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)
		Swagelok Tube Fitting 1/4", 3/8", 1/2" Female NPT 1/4", 3/8", 1/2" Male NPT 1/4", 3/8", 1/2"	6,000 psi @ 100 ^⁰ F	5455 psi @ 400 ⁰ F	ASME B31.1 (Unlisted Components) and ASME B31.3 (Unlisted Components)	

For more information about pressure ratings of valves with tube fitting end connections, see Swagelok Tubing Data, MS-01-107.

() Pressure ratings for valves with 1/2 in. female NPT end connections limited to 5700 psig (392 bar).



Product Options:

Additional options that do not affect pressure-temperature ratings may be made available within the scope of this registration. Examples of these would include poppet springs and body seal materials.

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 Special Alloy Bleed Valves products are made at a Swagelok Company location in Solon, Ohio.

References

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

• Check Valves – Special Alloy Materials – CH Series Catalog MS-02-440

Attachment B5. Scope for Swagelok Special Alloy N and HN Series Needle Valves (Category C)

This document represents the scope of the Swagelok Special Alloy N and HN Needle Valves covered by this submission for CRN approval. The Swagelok Special Alloy N and HN Needle Valves were designed and evaluated in accordance with ASME B31.1 for unlisted components and ASME B31.3 for unlisted components.

Summary Table

Product	Main Pressure	Main Pressure	Port Connections and	Maximum Ra	ted Pressure	Design Code of
Description or Series	Bearing Component	Bearing Material Sizes	At ambient temperature	At maximum temperature	Construction	
		Stainless Steel 2507 (ASTM A479 UNS S32750)	Female NPT 1/8", 1/4" Male NPT 1/4" Swagelok Tube Fitting 1/4", 6MM	6,000 psi @ 100 ⁰ F	5,370 psi @ 482 ⁰ F	ASME B31.1 (Unlisted Components) ASME B31.3 (Unlisted Components)
3N	Body	Alloy 825 (ASTM B425 UNS N08825)	Female NPT 1/8", 1/4" Male NPT 1/4" Swagelok Tube Fitting 1/4", 6MM	6,000 psi @ 100 ^⁰ F	4,250 psi @ 1000 ⁰ F (Note 1)	ASME B31.1 (Unlisted Components) ASME B31.3 (Unlisted Components)
6N		Alloy 825 (ASTM B425 UNS N08825)	Female NPT 1/4", 3/8" Swagelok Tube Fitting 3/8", 1/2", 10MM, 12MM	6,000 psi @ 100 ⁰ F	4,250 psi @ 1000 ⁰ F (Note 1)	ASME B31.1 (Unlisted Components) ASME B31.3 (Unlisted Components)
ON	Body	Stainless Steel 6MO (ASTM A182 UNS S31254)	Female NPT 1/4", 3/8" Swagelok Tube Fitting 3/8", 1/2", 10MM, 12MM	6,000 psi @ 100 ⁰ F	3,860 psi @ 750 ^⁰ F	ASME B31.1 (Unlisted Components) ASME B31.3 (Unlisted Components)
12N	Body	Alloy 825 (ASTM B425 UNS N08825)	Female NPT 1/2", 3/4", 1" Male NPT 1/2", 3/4", 1" Swagelok Tube Fitting 1/2", 3/4", 12MM	6,000 psi @ 100 ⁰ F	4,250 psi @ 1000 ^º F (Note 1)	ASME B31.1 (Unlisted Components) ASME B31.3 (Unlisted Components)
Neter		Stainless Steel 6MO (ASTM A182 UNS S31254)	Female NPT 1/2", 3/4", 1" Male NPT 1/2", 3/4", 1" Swagelok Tube Fitting 1/2", 3/4", 12MM	6,000 psi @ 100 ⁰F	3,860 psi @ 750 ⁰F	ASME B31.1 (Unlisted Components) ASME B31.3 (Unlisted Components)

Notes:

(1) For ASME B31.1 applications, this product is rated to 4,380 psi @ 800°F.

For more information about pressure ratings of valves with tube fitting end connections, see Swagelok® Tubing Data, MS-01-107.

Product	Main	Main Pressure		Maximum Ra		
Description or Series	Pressure Bearing Component	Bearing Material (Standard)	Port Connections and Sizes	At ambient temperature	At maximum temperature	Design Code of Construction
		Stainless Steel 2507 (ASTM A479 UNS S32750)	Female NPT 1/8", 1/4" Male NPT 1/4" Swagelok Tube Fitting 1/4", 6MM	10,000 psi @ 100 ⁰F	8,960 psi @ 482 ⁰ F	ASME B31.1 (Unlisted Components) ASME B31.3 (Unlisted Components)
3HN	Body	Alloy 825 (ASTM B425 UNS N08825)	Female NPT 1/8", 1/4" Male NPT 1/4" Swagelok Tube Fitting 1/4", 6MM	10,000 psi @ 100 ⁰F	7,080 psi @ 1000 ⁰ F (Note 1)	ASME B31.1 (Unlisted Components) ASME B31.3 (Unlisted Components)
6HN	Body	Stainless Steel 2507 (ASTM A479 UNS S32750)	Female NPT 1/4", 1/2" Male NPT 1/2" Swagelok Tube Fitting 3/8", 1/2"	10,000 psi @ 100 ^º F	8,960 psi @ 482 ⁰ F	ASME B31.1 (Unlisted Components) ASME B31.3 (Unlisted Components)

Notes:

(1) For ASME B31.1 applications, this product is rated to 7,295 psi @ 800°F.

For more information about pressure ratings of valves with tube fitting end connections, see Swagelok® Tubing Data, MS-01-107.



Typical Product Characteristics

Some of the product options listed below affect the pressure-temperature ratings shown in the Summary Table, but in all cases the ratings are less than those shown. All of the following options are within the scope of this registration:

Typical Options Handles

Vent Tubes

Additional options and non-pressure boundary alterations that do not affect pressure-temperature ratings may be made available within the scope of this registration. Examples of these would include handle options, actuator options, etc.

Product Options

Additional options that do not affect pressure-temperature ratings may be made available within the scope of this registration. Examples of these would include stem packing seal materials, stem tip, and handle options.

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. Special Alloy N and HN Needle Valve products are made at a Swagelok Company location in Solon, Ohio.

References

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

• N, HN Bleed Valves - Special Alloy Materials Catalog MS-02-365