

July 16, 2020

Attention: Roy Edwards
STREAM-FLO INDUSTRIES LTD
4505 74 AVENUE
EDMONTON, AB T6B 2H5

The design submission, tracking number 2020-03341, originally received on July 02, 2020 was surveyed and accepted for registration as follows:

CRN : 0C20837.2 **Accepted on:** July 16, 2020

Reg Type: NEW DESIGN **Expiry Date:** July 16, 2030

Drawing No. : TABLE 1A:SCOPE OF FITTING DESIGN FOR H/N SERIES CHECK VALVES

Fitting type: H SERIES & N SERIES SWING CHECK VALVES

The registration is conditional on your compliance with the following notes:

- H Series: Figure 10, 1008, 1009, 71, 7108, 7109

- N Series: Figure 1000, 7100

*** This registration covers those valves that are in strict accordance with ASME B16.34, in regards to materials, dimensions, marking, pressure and temperature ratings etc. Since API 6D do not provide design validation of valves, this registration was not evaluated against API 6D*

*** for MDMT that is colder than -20 deg F, Charpy impact test will be conducted per applicable standard*

As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction is B16.34.

- It is our understanding that the fitting(s), included as the scope of this submission, that is(are) subject to the Safety Codes Act shall comply with the requirements of the indicated Standard or Code of Construction on the AB-41 Statutory Declaration as supported by the attached data which identifies the dimensions, materials of construction, press./temp. ratings and the basis for such ratings, and the identification marking of the fittings.
- This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.
- This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date.
- Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3337 or fax (780) 437-7787 or e-mail Dick@absa.ca.

Sincerely,





the pressure equipment safety authority

9410 - 20 Ave N.W.
Edmonton, Alberta, Canada T6N 0A4
Tel: (780) 437-9100 / Fax: (780) 437-7787

July 16, 2020

DICK, ASHLING, P. Eng.
DOP Cert. No. D00007936

STATUTORY DECLARATION
Registration of Fittings
Single or Multiple Fitting Designs within one Fitting Category

I, Roy Edwards, Engineering Manager - Valve Business Unit
(name of applicant) (position title) (must be in a position of authority)
of Stream-Flo Industries
(name of manufacturer)
located at 4505-74th Avenue, Edmonton, Alberta, Canada T6B 2H5
(plant address)



do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act (select only one)

- ☒ comply with the requirements of ASME B16.34, B16.11, B1.20.1, & API 6D which specifies the dimensions, materials of construction, pressure/temperature ratings and identification marking of the fittings, or
(title of recognized North American Standard)
- ☐ are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with _____ as supported by the
(title of code of construction or other applicable document)
attached data which identifies the dimensions, materials of construction, pressure/temperature ratings and the basis for such ratings, and the identification marking of the fittings.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified as described in the below Table as being suitable for the manufacturing of these fittings to the stated standard, regulation, code, guideline or other applicable document. The fittings covered by the declaration for which I seek registration are as provided in the Supplementary Sheet(s) attached.

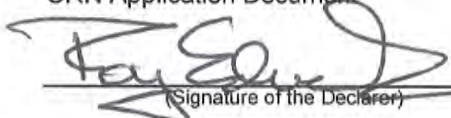
Quality Program Verification and Manufacturing Sites

A copy of the Quality Certificate from each manufacturing site must be included

Item #	Product Description, Model or Series	Quality Program	Scope of Certification	Expiry Date	Verifying Organization	Location(s) Plant Name and address
1.	See Attached for Quality Program Verification					
2.						

In support of this application, the following information, calculations and/or test data are attached:

Catalog Cut Sheets for "H" (Figure 10, 1008, 1009, 71, 7108, & 7109) and "N" (Figure 1000 & 7100) Series Threaded Top/Threaded End & Threaded Top/Socket Weld End Swing Check Valves, Design Calcs and Dwgs for largest valve size of each pressure class, Actual minimum wall thickness vs ASME B16.34 wall thickness, Stream-Flo Industries CRN Application Document


(Signature of the Declarer)

June 30, 2020

(Date)

DECLARED before me at Edmonton in the Province of Alberta
(city) (province, territory, or state)
this 30th day of June, 2020
(Month) (Year)

(print) Rena Khiamal
(a Commissioner of Oaths or Notary Public)

(sign) 
(a Commissioner of Oaths or Notary Public)

October 18, 2021

(expiry date (mm/dd/yy))

RENA KHIAMAL
Commissioner for Oaths
in and for the Province of Alberta
Appointee # 0690349

Commissioner of Oaths / Notary Public in and for: Province of Alberta
(province, territory, or state)

For ABSA Office Use Only:

NOTES: _____

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard B51, Part 1, Clause 4.2, and is accepted for registration in Category _____.

CRN: _____

Registered Date: _____

Expiry Date: _____

Signature: _____

(Signature of the Administrator/SCO)

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Pressure Equipment Discipline

2020-03341

ABSA

SAFETY CODES ACT - PROVINCE OF ALBERTA

ACCEPTED: 0C20837.2

See acceptance letter for conditions of registration.

Date: 2020-07-16

By:


ASHLING DICK, P. Eng.

This stamp and signature have been affixed electronically to this registered design as required by Section 20(1) of the Pressure Equipment Safety Regulation, in accordance with the Electronic Transactions Act.

Table 1 Scope of Fitting Designs**

Item #	Primary Pressure Bearing / Retaining Component	Material of Construction	Port Connections and Size Range	MDMT	Rated Pressure		Pressure Class(es) / Schedule(s)	Design Code(s) of Construction	Reference Catalogue (pages) or Drawing(s)
					At Ambient Temperature	At Maximum Temperature			
See Table 1A Attached for Full Scope of Fitting Designs									

Table 2 Additional Scope Information

List/Attach Additional Detail and References (Product Configurations, Options, Illustrations, etc.)
Example: Series X Options

** For additional alternatives of Table 1, refer to Form AB-41a, Guide for Completing Form AB-41

Design Scope for Fitting Registration Supplementary to ABSA Form AB-41

ABSA Form AB-41a Quality Program Verification and Manufacturing Sites

Fitting Description	Quality Control Program	Scope of Certification	Expiry Date	Verifying Organization	Locations(s) Plant Name and Address
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	ABSA	Certification of Authorization Permit, Certificate #: 12438, Registration #: AQP-5090, Category C Fittings	February 24, 2021	ABSA	Stream-Flo Industries 4505-74th Avenue Edmonton, Alberta, Canada T6B 2H5
	ISO 9001: 2015	The registration covers the Quality Management System for the design, manufacture and servicing of: CSA Z245.15 Steel Valves; API 6A Wellhead and Christmas Tree Equipment; API 6D Pipeline Valves; Actuation and related Controls, Certificate No. CERT-0104468, File No. 802070	August 8, 2020	SAI Global	
	ISO 9001: 2015	The registration covers the Quality Management System for the design, manufacture and servicing of: CSA Z245.15 Steel Valves; API 6A Wellhead and Christmas Tree Equipment; API 6D Pipeline Valves; Actuation and related Controls, Certificate No. CERT-0104469, File No. 802070	August 7, 2023	SAI Global	
	API Specification Q1	Design, Manufacture, and Service of Wellheads, Tree Equipment, Valves and Actuators for use in the Petroleum and Natural Gas Industry, Registration No. Q1-3980	February 3, 2023	API	

Design Scope for Fitting Registration Supplementary to ABSA Form AB-41

ABSA Form AB-41a (Table 1A) - Scope of Fitting Design - July 15, 2020

Fitting Description	Primary Pressure Containing Component	Typical Materials of Construction	Size Range	End Connection	Design Condition			Typical Seals Offered	MDMT	Pressure Class	Design Code or Standard	Catalog Page or Drawing Numbers
					Pressure at Minimum Design Temperature	Presure at Ambient Temperature (75°F)	Pressure at Maximum Design Temperature					
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A216 WCB	1/2" to 2"	Threaded End & Socket Weld End	285 psig@-20°F	285 psig@75°F	245 psig@250°F	Nitrile	-20F	150	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A216 WCB ASTM A350 LF2 Class 1 ASTM A216 WCC ASTM A352 LCC					230 psig@300°F	HSN / HNBR				
							200 psig@400°F	FKM				
							185 psig@450°F	PTFE (TEFLON)				
							140 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A216 WCC ASTM A352 LCC	1/2" to 2"	Threaded End & Socket Weld End	290 psig@-20°F	290 psig@75°F	245 psig@250°F	Nitrile	-20F	150	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A350 LF2 Class 1 ASTM A216 WCC ASTM A352 LCC					230 psig@300°F	HSN / HNBR				
							200 psig@400°F	FKM				
							185 psig@450°F	PTFE (TEFLON)				
							140 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A352 LCC	1/2" to 2"	Threaded End & Socket Weld End	290 psig@-50°F	290 psig@75°F	245 psig@250°F	Nitrile	-50F	150	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A350 LF2 Class 1 ASTM A352 LCC					230 psig@300°F	HSN / HNBR				
							200 psig@400°F	FKM				
							185 psig@450°F	PTFE (TEFLON)				
							140 psig@600°F	Metal to Metal				

2020-03341

ABSA

SAFETY CODES ACT - PROVINCE OF ALBERTA

ACCEPTED: 0C20837.2

**See acceptance letter for
conditions of registration.**

Date: 2020-07-16

By: 
ASHLING DICK, P. Eng.

Design Scope for Fitting Registration Supplementary to ABSA Form AB-41

Fitting Description	Primary Pressure Containing Component	Typical Materials of Construction	Size Range	End Connection	Design Condition			Typical Seals Offered	MDMT	Pressure Class	Design Code or Standard	Catalog Page or Drawing Numbers
					Pressure at Minimum Design Temperature	Presure at Ambient Temperature (75°F)	Pressure at Maximum Design Temperature					
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A351 CF3M ASTM A351 CF8M	1/2" to 2"	Threaded End & Socket Weld End	275 psig@-20°F	275 psig@75°F	225 psig@250°F	Nitrile	-20F	150	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
							215 psig@300°F	HSN / HNBR				
	Cap	ASTM A182 F316/F316L ASTM A351 CF3M ASTM A351 CF8M					195 psig@400°F	FKM				
							180 psig@450°F	PTFE (TEFLON)				
							140 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A351 CF3M ASTM A351 CF8M	1/2" to 2"	Threaded End & Socket Weld End	275 psig@-50°F	275 psig@75°F	225 psig@250°F	Nitrile	-50F	150	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
							215 psig@300°F	HSN / HNBR				
	Cap	ASTM A182 F316/F316L ASTM A351 CF3M ASTM A351 CF8M					195 psig@400°F	FKM				
							180 psig@450°F	PTFE (TEFLON)				
							140 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A216 WCB	1/2" to 2"	Threaded End & Socket Weld End	740 psig@-20°F	740 psig@75°F	665 psig@250°F	Nitrile	-20F	300	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
							655 psig@300°F	HSN / HNBR				
	Cap	ASTM A216 WCB ASTM A350 LF2 Class 1 ASTM A216 WCC ASTM A352 LCC					635 psig@400°F	FKM				
							620 psig@450°F	PTFE (TEFLON)				
							570 psig@600°F	Metal to Metal				

Design Scope for Fitting Registration Supplementary to ABSA Form AB-41

Fitting Description	Primary Pressure Containing Component	Typical Materials of Construction	Size Range	End Connection	Design Condition			Typical Seals Offered	MDMT	Pressure Class	Design Code or Standard	Catalog Page or Drawing Numbers
					Pressure at Minimum Design Temperature	Presure at Ambient Temperature (75°F)	Pressure at Maximum Design Temperature					
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A216 WCC ASTM A352 LCC	1/2" to 2"	Threaded End & Socket Weld End	750 psig@-20°F	750 psig@75°F	750 psig@250°F	Nitrile	-20F	300	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A350 LF2 Class 1 ASTM A216 WCC ASTM A352 LCC					730 psig@300°F	HSN / HNBR				
							705 psig@400°F	FKM				
							685 psig@450°F	PTFE (TEFLON)				
							605 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A352 LCC	1/2" to 2"	Threaded End & Socket Weld End	750 psig@-50°F	750 psig@75°F	750 psig@250°F	Nitrile	-50F	300	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A350 LF2 Class 1 ASTM A352 LCC					730 psig@300°F	HSN / HNBR				
							705 psig@400°F	FKM				
							685 psig@450°F	PTFE (TEFLON)				
							605 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A351 CF3M ASTM A351 CF8M	1/2" to 2"	Threaded End & Socket Weld End	720 psig@-20°F	720 psig@75°F	590 psig@250°F	Nitrile	-20F	300	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A182 F316/F316L ASTM A351 CF3M ASTM A351 CF8M					560 psig@300°F	HSN / HNBR				
							515 psig@400°F	FKM				
							495 psig@450°F	PTFE (TEFLON)				
							450 psig@600°F	Metal to Metal				

Design Scope for Fitting Registration Supplementary to ABSA Form AB-41

Fitting Description	Primary Pressure Containing Component	Typical Materials of Construction	Size Range	End Connection	Design Condition			Typical Seals Offered	MDMT	Pressure Class	Design Code or Standard	Catalog Page or Drawing Numbers
					Pressure at Minimum Design Temperature	Pressure at Ambient Temperature (75°F)	Pressure at Maximum Design Temperature					
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A351 CF3M ASTM A351 CF8M	1/2" to 2"	Threaded End & Socket Weld End	720 psig@-50°F	720 psig@75°F	590 psig@250°F	Nitrile	-50F	300	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
							560 psig@300°F	HSN / HNBR				
	Cap	ASTM A182 F316/F316L ASTM A351 CF3M ASTM A351 CF8M					515 psig@400°F	FKM				
							495 psig@450°F	PTFE (TEFLON)				
							450 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A216 WCB	1/2" to 2"	Threaded End & Socket Weld End	1480 psig@-20°F	1480 psig@75°F	1335 psig@250°F	Nitrile	-20F	600	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
							1310 psig@300°F	HSN / HNBR				
	Cap	ASTM A216 WCB ASTM A350 LF2 Class 1 ASTM A216 WCC ASTM A352 LCC					1265 psig@400°F	FKM				
							1235 psig@450°F	PTFE (TEFLON)				
							1135 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A216 WCC ASTM A352 LCC	1/2" to 2"	Threaded End & Socket Weld End	1500 psig@-20°F	1500 psig@75°F	1475 psig@250°F	Nitrile	-20F	600	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
							1455 psig@300°F	HSN / HNBR				
	Cap	ASTM A350 LF2 Class 1 ASTM A216 WCC ASTM A352 LCC					1405 psig@400°F	FKM				
							1365 psig@450°F	PTFE (TEFLON)				
							1210 psig@600°F	Metal to Metal				

Design Scope for Fitting Registration Supplementary to ABSA Form AB-41

Fitting Description	Primary Pressure Containing Component	Typical Materials of Construction	Size Range	End Connection	Design Condition			Typical Seals Offered	MDMT	Pressure Class	Design Code or Standard	Catalog Page or Drawing Numbers
					Pressure at Minimum Design Temperature	Presure at Ambient Temperature (75°F)	Pressure at Maximum Design Temperature					
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A352 LCC	1/2" to 2"	Threaded End & Socket Weld End	1500 psig@-50°F	1500 psig@75°F	1475 psig@250°F	Nitrile	-50F	600	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A350 LF2 Class 1 ASTM A352 LCC					1455 psig@300°F	HSN / HNBR				
							1405 psig@400°F	FKM				
							1365 psig@450°F	PTFE (TEFLON)				
							1210 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A351 CF3M ASTM A351 CF8M	1/2" to 2"	Threaded End & Socket Weld End	1440 psig@-20°F	1440 psig@75°F	1180 psig@250°F	Nitrile	-20F	600	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A182 F316/F316L ASTM A351 CF3M ASTM A351 CF8M					1120 psig@300°F	HSN / HNBR				
							1025 psig@400°F	FKM				
							990 psig@450°F	PTFE (TEFLON)				
							900 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A351 CF3M ASTM A351 CF8M	1/2" to 2"	Threaded End & Socket Weld End	1440 psig@-50°F	1440 psig@75°F	1180 psig@250°F	Nitrile	-50F	600	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A182 F316/F316L ASTM A351 CF3M ASTM A351 CF8M					1120 psig@300°F	HSN / HNBR				
							1025 psig@400°F	FKM				
							990 psig@450°F	PTFE (TEFLON)				
							900 psig@600°F	Metal to Metal				

Design Scope for Fitting Registration Supplementary to ABSA Form AB-41

Fitting Description	Primary Pressure Containing Component	Typical Materials of Construction	Size Range	End Connection	Design Condition			Typical Seals Offered	MDMT	Pressure Class	Design Code or Standard	Catalog Page or Drawing Numbers
					Pressure at Minimum Design Temperature	Presure at Ambient Temperature (75°F)	Pressure at Maximum Design Temperature					
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A216 WCB	1/2" to 2"	Threaded End & Socket Weld End	1970 psig@-20°F	1970 psig@75°F	1775 psig@250°F	Nitrile	-20F	800	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A216 WCB ASTM A350 LF2 Class 1 ASTM A216 WCC ASTM A352 LCC					1745 psig@300°F	HSN / HNBR				
							1685 psig@400°F	FKM				
							1645 psig@450°F	PTFE (TEFLON)				
							1515 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A216 WCC ASTM A352 LCC	1/2" to 2"	Threaded End & Socket Weld End	2000 psig@-20°F	2000 psig@75°F	1965 psig@250°F	Nitrile	-20F	800	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A350 LF2 Class 1 ASTM A216 WCC ASTM A352 LCC					1940 psig@300°F	HSN / HNBR				
							1875 psig@400°F	FKM				
							1820 psig@450°F	PTFE (TEFLON)				
							1610 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A352 LCC	1/2" to 2"	Threaded End & Socket Weld End	2000 psig@-50°F	2000 psig@75°F	1965 psig@250°F	Nitrile	-50F	800	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A350 LF2 Class 1 ASTM A352 LCC					1940 psig@300°F	HSN / HNBR				
							1875 psig@400°F	FKM				
							1820 psig@450°F	PTFE (TEFLON)				
							1610 psig@600°F	Metal to Metal				

Design Scope for Fitting Registration Supplementary to ABSA Form AB-41

Fitting Description	Primary Pressure Containing Component	Typical Materials of Construction	Size Range	End Connection	Design Condition			Typical Seals Offered	MDMT	Pressure Class	Design Code or Standard	Catalog Page or Drawing Numbers
					Pressure at Minimum Design Temperature	Presure at Ambient Temperature (75°F)	Pressure at Maximum Design Temperature					
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A351 CF3M ASTM A351 CF8M	1/2" to 2"	Threaded End & Socket Weld End	1920 psig@-20°F	1920 psig@75°F	1570 psig@250°F	Nitrile	-20F	800	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A182 F316/F316L ASTM A351 CF3M ASTM A351 CF8M					1490 psig@300°F	HSN / HNBR				
							1365 psig@400°F	FKM				
							1320 psig@450°F	PTFE (TEFLON)				
							1200 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A351 CF3M ASTM A351 CF8M	1/2" to 2"	Threaded End & Socket Weld End	1920 psig@-50°F	1920 psig@75°F	1570 psig@250°F	Nitrile	-50F	800	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A182 F316/F316L ASTM A351 CF3M ASTM A351 CF8M					1490 psig@300°F	HSN / HNBR				
							1365 psig@400°F	FKM				
							1320 psig@450°F	PTFE (TEFLON)				
							1200 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A216 WCB	1/2" to 2"	Threaded End & Socket Weld End	2220 psig@-20°F	2220 psig@75°F	2000 psig@250°F	Nitrile	-20F	900	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A216 WCB ASTM A350 LF2 Class 1 ASTM A216 WCC ASTM A352 LCC					1965 psig@300°F	HSN / HNBR				
							1900 psig@400°F	FKM				
							1855 psig@450°F	PTFE (TEFLON)				
							1705 psig@600°F	Metal to Metal				

Design Scope for Fitting Registration Supplementary to ABSA Form AB-41

Fitting Description	Primary Pressure Containing Component	Typical Materials of Construction	Size Range	End Connection	Design Condition			Typical Seals Offered	MDMT	Pressure Class	Design Code or Standard	Catalog Page or Drawing Numbers
					Pressure at Minimum Design Temperature	Pressure at Ambient Temperature (75°F)	Pressure at Maximum Design Temperature					
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A216 WCC ASTM A352 LCC	1/2" to 2"	Threaded End & Socket Weld End	2250 psig@-20°F	2250 psig@75°F	2215 psig@250°F	Nitrile	-20F	900	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A350 LF2 Class 1 ASTM A216 WCC ASTM A352 LCC					2185 psig@300°F	HSN / HNBR				
							2110 psig@400°F	FKM				
							2050 psig@450°F	PTFE (TEFLON)				
							1815 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A352 LCC	1/2" to 2"	Threaded End & Socket Weld End	2250 psig@-50°F	2250 psig@75°F	2215 psig@250°F	Nitrile	-50F	900	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A350 LF2 Class 1 ASTM A352 LCC					2185 psig@300°F	HSN / HNBR				
							2110 psig@400°F	FKM				
							2050 psig@450°F	PTFE (TEFLON)				
							1815 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A351 CF3M ASTM A351 CF8M	1/2" to 2"	Threaded End & Socket Weld End	2160 psig@-20°F	2160 psig@75°F	1770 psig@250°F	Nitrile	-20F	900	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A182 F316/F316L ASTM A351 CF3M ASTM A351 CF8M					1680 psig@300°F	HSN / HNBR				
							1540 psig@400°F	FKM				
							1485 psig@450°F	PTFE (TEFLON)				
							1355 psig@600°F	Metal to Metal				

Design Scope for Fitting Registration Supplementary to ABSA Form AB-41

Fitting Description	Primary Pressure Containing Component	Typical Materials of Construction	Size Range	End Connection	Design Condition			Typical Seals Offered	MDMT	Pressure Class	Design Code or Standard	Catalog Page or Drawing Numbers
					Pressure at Minimum Design Temperature	Pressure at Ambient Temperature (75°F)	Pressure at Maximum Design Temperature					
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A351 CF3M ASTM A351 CF8M	1/2" to 2"	Threaded End & Socket Weld End	2160 psig@-50°F	2160 psig@75°F	1770 psig@250°F	Nitrile	-50F	900	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A182 F316/F316L ASTM A351 CF3M ASTM A351 CF8M					1680 psig@300°F	HSN / HNBR				
							1540 psig@400°F	FKM				
							1485 psig@450°F	PTFE (TEFLON)				
							1355 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A216 WCB	1/2" to 2"	Threaded End & Socket Weld End	2960 psig@-20°F	2960 psig@75°F	2665 psig@250°F	Nitrile	-20F	1200	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A216 WCB ASTM A350 LF2 Class 1 ASTM A216 WCC ASTM A352 LCC					2615 psig@300°F	HSN / HNBR				
							2535 psig@400°F	FKM				
							2470 psig@450°F	PTFE (TEFLON)				
							2270 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A216 WCC ASTM A352 LCC	1/2" to 2"	Threaded End & Socket Weld End	3000 psig@-20°F	3000 psig@75°F	2955 psig@250°F	Nitrile	-20F	1200	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A350 LF2 Class 1 ASTM A216 WCC ASTM A352 LCC					2910 psig@300°F	HSN / HNBR				
							2815 psig@400°F	FKM				
							2735 psig@450°F	PTFE (TEFLON)				
							2420 psig@600°F	Metal to Metal				

Design Scope for Fitting Registration Supplementary to ABSA Form AB-41

Fitting Description	Primary Pressure Containing Component	Typical Materials of Construction	Size Range	End Connection	Design Condition			Typical Seals Offered	MDMT	Pressure Class	Design Code or Standard	Catalog Page or Drawing Numbers
					Pressure at Minimum Design Temperature	Presure at Ambient Temperature (75°F)	Pressure at Maximum Design Temperature					
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A352 LCC	1/2" to 2"	Threaded End & Socket Weld End	3000 psig@-50°F	3000 psig@75°F	2955 psig@250°F	Nitrile	-50F	1200	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A350 LF2 Class 1 ASTM A352 LCC					2910 psig@300°F	HSN / HNBR				
							2815 psig@400°F	FKM				
							2735 psig@450°F	PTFE (TEFLON)				
							2420 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A351 CF3M ASTM A351 CF8M	1/2" to 2"	Threaded End & Socket Weld End	2880 psig@-20°F	2880 psig@75°F	2355 psig@250°F	Nitrile	-20F	1200	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A182 F316/F316L ASTM A351 CF3M ASTM A351 CF8M					2235 psig@300°F	HSN / HNBR				
							2055 psig@400°F	FKM				
							1980 psig@450°F	PTFE (TEFLON)				
							1805 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A351 CF3M ASTM A351 CF8M	1/2" to 2"	Threaded End & Socket Weld End	2280 psig@-50°F	2280 psig@75°F	2355 psig@250°F	Nitrile	-50F	1200	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A182 F316/F316L ASTM A351 CF3M ASTM A351 CF8M					2235 psig@300°F	HSN / HNBR				
							2055 psig@400°F	FKM				
							1980 psig@450°F	PTFE (TEFLON)				
							1805 psig@600°F	Metal to Metal				

Design Scope for Fitting Registration Supplementary to ABSA Form AB-41

Fitting Description	Primary Pressure Containing Component	Typical Materials of Construction	Size Range	End Connection	Design Condition			Typical Seals Offered	MDMT	Pressure Class	Design Code or Standard	Catalog Page or Drawing Numbers
					Pressure at Minimum Design Temperature	Presure at Ambient Temperature (75°F)	Pressure at Maximum Design Temperature					
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A216 WCB	1/2" to 2"	Threaded End & Socket Weld End	3705 psig@-20°F	3705 psig@75°F	3330 psig@250°F	Nitrile	-20F	1500	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A216 WCB ASTM A350 LF2 Class 1 ASTM A216 WCC ASTM A352 LCC					3270 psig@300°F	HSN / HNBR				
							3170 psig@400°F	FKM				
							3090 psig@450°F	PTFE (TEFLON)				
							2840 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A216 WCC ASTM A352 LCC	1/2" to 2"	Threaded End & Socket Weld End	3750 psig@-20°F	3750 psig@75°F	3695 psig@250°F	Nitrile	-20F	1500	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A350 LF2 Class 1 ASTM A216 WCC ASTM A352 LCC					3640 psig@300°F	HSN / HNBR				
							3520 psig@400°F	FKM				
							3420 psig@450°F	PTFE (TEFLON)				
							3025 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A352 LCC	1/2" to 2"	Threaded End & Socket Weld End	3750 psig@-50°F	3750 psig@75°F	3695 psig@250°F	Nitrile	-50F	1500	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A350 LF2 Class 1 ASTM A352 LCC					3640 psig@300°F	HSN / HNBR				
							3520 psig@400°F	FKM				
							3420 psig@450°F	PTFE (TEFLON)				
							3025 psig@600°F	Metal to Metal				

Design Scope for Fitting Registration Supplementary to ABSA Form AB-41

Fitting Description	Primary Pressure Containing Component	Typical Materials of Construction	Size Range	End Connection	Design Condition			Typical Seals Offered	MDMT	Pressure Class	Design Code or Standard	Catalog Page or Drawing Numbers
					Pressure at Minimum Design Temperature	Pressure at Ambient Temperature (75°F)	Pressure at Maximum Design Temperature					
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A351 CF3M ASTM A351 CF8M	1/2" to 2"	Threaded End & Socket Weld End	3600 psig@-20°F	3600 psig@75°F	2945 psig@250°F	Nitrile	-20F	1500	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A182 F316/F316L ASTM A351 CF3M ASTM A351 CF8M					2795 psig@300°F	HSN / HNBR				
							2570 psig@400°F	FKM				
							2480 psig@450°F	PTFE (TEFLON)				
							2255 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A351 CF3M ASTM A351 CF8M	1/2" to 2"	Threaded End & Socket Weld End	3600 psig@-50°F	3600 psig@75°F	2945 psig@250°F	Nitrile	-50F	1500	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A182 F316/F316L ASTM A351 CF3M ASTM A351 CF8M					2795 psig@300°F	HSN / HNBR				
							2570 psig@400°F	FKM				
							2480 psig@450°F	PTFE (TEFLON)				
							2255 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A216 WCB	1/2" to 2"	Threaded End & Socket Weld End	4445 psig@-20°F	4445 psig@75°F	3995 psig@250°F	Nitrile	-20F	1800	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A216 WCB ASTM A350 LF2 Class 1 ASTM A216 WCC ASTM A352 LCC					3920 psig@300°F	HSN / HNBR				
							3800 psig@400°F	FKM				
							3705 psig@450°F	PTFE (TEFLON)				
							3405 psig@600°F	Metal to Metal				

Design Scope for Fitting Registration Supplementary to ABSA Form AB-41

Fitting Description	Primary Pressure Containing Component	Typical Materials of Construction	Size Range	End Connection	Design Condition			Typical Seals Offered	MDMT	Pressure Class	Design Code or Standard	Catalog Page or Drawing Numbers
					Pressure at Minimum Design Temperature	Pressure at Ambient Temperature (75°F)	Pressure at Maximum Design Temperature					
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A216 WCC ASTM A352 LCC	1/2" to 2"	Threaded End & Socket Weld End	4500 psig@-20°F	4500 psig@75°F	4435 psig@250°F	Nitrile	-20F	1800	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A350 LF2 Class 1 ASTM A216 WCC ASTM A352 LCC					4365 psig@300°F	HSN / HNBR				
							4220 psig@400°F	FKM				
							4100 psig@450°F	PTFE (TEFLON)				
							3625 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A352 LCC	1/2" to 2"	Threaded End & Socket Weld End	4500 psig@-50°F	4500 psig@75°F	4435 psig@250°F	Nitrile	-50F	1800	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A350 LF2 Class 1 ASTM A352 LCC					4365 psig@300°F	HSN / HNBR				
							4220 psig@400°F	FKM				
							4100 psig@450°F	PTFE (TEFLON)				
							3625 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A351 CF3M ASTM A351 CF8M	1/2" to 2"	Threaded End & Socket Weld End	4320 psig@-20°F	4320 psig@75°F	3535 psig@250°F	Nitrile	-20F	1800	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A182 F316/F316L ASTM A351 CF3M ASTM A351 CF8M					3355 psig@300°F	HSN / HNBR				
							3080 psig@400°F	FKM				
							2975 psig@450°F	PTFE (TEFLON)				
							2705 psig@600°F	Metal to Metal				

Design Scope for Fitting Registration Supplementary to ABSA Form AB-41

Fitting Description	Primary Pressure Containing Component	Typical Materials of Construction	Size Range	End Connection	Design Condition			Typical Seals Offered	MDMT	Pressure Class	Design Code or Standard	Catalog Page or Drawing Numbers
					Pressure at Minimum Design Temperature	Presure at Ambient Temperature (75°F)	Pressure at Maximum Design Temperature					
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A351 CF3M ASTM A351 CF8M	1/2" to 2"	Threaded End & Socket Weld End	4320 psig@-50°F	4320 psig@75°F	3535 psig@250°F	Nitrile	-50F	1800	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A182 F316/F316L ASTM A351 CF3M ASTM A351 CF8M					3355 psig@300°F	HSN / HNBR				
							3080 psig@400°F	FKM				
							2975 psig@450°F	PTFE (TEFLON)				
							2705 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A216 WCB	1/2" to 2"	Threaded End & Socket Weld End	6170 psig@-20°F	6170 psig@75°F	5550 psig@250°F	Nitrile	-20F	2500	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A216 WCB ASTM A350 LF2 Class 1 ASTM A216 WCC ASTM A352 LCC					5450 psig@300°F	HSN / HNBR				
							5280 psig@400°F	FKM				
							5150 psig@450°F	PTFE (TEFLON)				
							4730 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A216 WCC ASTM A352 LCC	1/2" to 2"	Threaded End & Socket Weld End	6250 psig@-20°F	6250 psig@75°F	6160 psig@250°F	Nitrile	-20F	2500	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A350 LF2 Class 1 ASTM A216 WCC ASTM A352 LCC					6070 psig@300°F	HSN / HNBR				
							5865 psig@400°F	FKM				
							5700 psig@450°F	PTFE (TEFLON)				
							5540 psig@600°F	Metal to Metal				

5040psi

Design Scope for Fitting Registration Supplementary to ABSA Form AB-41

Fitting Description	Primary Pressure Containing Component	Typical Materials of Construction	Size Range	End Connection	Design Condition			Typical Seals Offered	MDMT	Pressure Class	Design Code or Standard	Catalog Page or Drawing Numbers
					Pressure at Minimum Design Temperature	Presure at Ambient Temperature (75°F)	Pressure at Maximum Design Temperature					
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A352 LCC	1/2" to 2"	Threaded End & Socket Weld End	6250 psig@-50°F	6250 psig@75°F	6160 psig@250°F	Nitrile	-50F	2500	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A350 LF2 Class 1 ASTM A352 LCC					6070 psig@300°F	HSN / HNBR				
							5865 psig@400°F	FKM				
							5700 psig@450°F	PTFE (TEFLON)				
							5540 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A351 CF3M ASTM A351 CF8M	1/2" to 2"	Threaded End & Socket Weld End	6000 psig@-20°F	6000 psig@75°F	4910 psig@250°F	Nitrile	-20F	2500	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A182 F316/F316L ASTM A351 CF3M ASTM A351 CF8M					4660 psig@300°F	HSN / HNBR				
							4280 psig@400°F	FKM				
							4130 psig@450°F	PTFE (TEFLON)				
							3760 psig@600°F	Metal to Metal				
Swing Check Valves Threaded Top / Threaded End "H" Series (Figure 10, 1008, 1009) & "N" Series (Figure 1000) Threaded Top / Socket Weld End "H" Series (Figure 71, 7108, & 7109) & "N" Series (Figure 7100)	Body	ASTM A351 CF3M ASTM A351 CF8M	1/2" to 2"	Threaded End & Socket Weld End	6000 psig@-50°F	6000 psig@75°F	4910 psig@250°F	Nitrile	-50F	2500	ASME B16.34 API 6D	"H" Series Figure 10 Figure 1008 Figure 1009 Figure 71 Figure 7108 Figure 7109 & "N" Series Figure 1000 Figure 7100
	Cap	ASTM A182 F316/F316L ASTM A351 CF3M ASTM A351 CF8M					4660 psig@300°F	HSN / HNBR				
							4280 psig@400°F	FKM				
							4130 psig@450°F	PTFE (TEFLON)				
							3760 psig@600°F	Metal to Metal				