ABSA
the pressure equipment safety authority

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

March 25, 2025

Attention: Blake Gibson
FORUM ENERGY TECHNOLOGY/PROTECH VALVE SALES
9503 12 AVENUE SW
EDMONTON, AB T6X 0C3

The design submission, Tracking Number 2025-01828, Web Portal Number 2025-S1550, originally received on March 20, 2025 was surveyed and accepted for registration as follows:

CRN : 0C24952.2 **Accepted on:** March 25, 2025
Reg Type: NEW DESIGN **Expiry Date:** March 24, 2035
Drawing No. : PBV-Threaded-Socketweld-Ball-Valves As Noted
Fitting type: Threaded & Socketweld Ball Valves

Design registered in the name of : STARLINE S P A

Description	MAWP	Design Temperature
Per ASME B16.34		

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

- This registration is based on the understanding that all valves are in strict compliance with ASME B16.34, with respect to dimensions, pressure and temperature ratings, materials, markings etc.

- 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, and maintains a valid Certification of Authorization Permit if required by the jurisdiction where manufacturing takes place, until that date.

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 (587) 686-9381 or fax (780) 437-7787 or e-mail Newton@absa.ca.

Sincerely,

NEWTON, STEPHAN, E.I.T.
DOP Cert. No. D00011044

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

In this space, show facsimile of manufacturer's logo or trademark as it will appear on the fitting.

I, MARCO GHILARDI (name of applicant), PRESIDENT (position title) (must be in a position of authority)

of STARLINE S.p.A. (name of manufacturer)

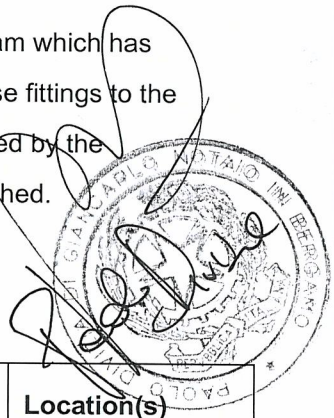
located at Via dei Livelli di Sopra 11, 24060 Costa di Mezzate (BG), Italy (plant address)

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, API 608 (title of recognized North American Standard) which specifies the dimensions, 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 manufactured to comply with _____ (title of code of construction or other applicable document) as supported by the 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.	Ball valves	ISO 9001:2015	Design and assembly of carbon, alloy and stainless steel floating and trunnion mounted ball valves operated manually or by selected actuator	16/06/2025	TUV NORD	Via dei Livelli di Sopra 11, 24060 Costa di Mezzate (BG), Italy
2.						

Tracking #: 2025-01828

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

Calculation Note PBV Series 5333/6333 and 5331/6331 Cl.150-Cl.300-Cl.600-Cl.800-Cl.900/1500-Cl.2500

(Signature of the Declarer)

18th of MARCH 2025
(Date)

DECLARED before me at BERGAMO (city) in the NOTARIAL OFFICE of BERGAMO (ITALY)Via Pradello 2 (province, territory, or state)

this 18th day of MARCH (Month), 2025 (Year)

(print) NOTARY PUBLIC PAOLO DIVIZIA
(a Commissioner of Oaths or Notary Public)

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

_____
(expiry date (mm/dd/yy))

Commissioner of Oaths / Notary Public in and for: _____
(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 C.

CRN: 0C24952.2

Registered Date: March 25, 2025

Expiry Date: March 25, 2035

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

2025-01828
ABSA
SAFETY CODES ACT - PROVINCE OF ALBERTA
ACCEPTED: 0C24952.2
See acceptance letter for conditions of registration.
Date: 2025-03-25 By: N. Stephan
STEPHAN NEWTON, E.I.T.
DOP: D00011044

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.

Tracking #: 2025-01828

Table 1** Scope of Fitting Designs

Fitting Description	Primary Pressure Bearing / Retaining Component	Material of construction	Fitting Size Range &/or schedule	MAWP or Ppress. Rating	Temp. Range min/max	End Conn. & Size Range	Code/Standard of construction	Refernece catalogue
Threaded & Socket welded Ball valves Series 5333/6333	BODY A	A105 A350 LF2 A182 F316 A182 F316L A182 F51 A182 F44 B564 N04400 B564 N06600 B564 N08810	NPT (1/4"-2")	//	//	ANSI Class: 150 300 600 800	Dimensions to ASME B16.34 Design to API 608	PBV Threaded & SW Ball Valves FE_PBV_ThrdSW_0312 Page 6-7
Threaded & Socket welded Ball valves Series 5331/6331	BODY A	A105 A350 LF2 A182 F316 A182 F316L A182 F51 A182 F44 B564 N04400 B564 N06600 B564 N08810	NPT (1/4"-2")	//	//	ANSI Class: 150 300 600 800	Dimensions to ASME B16.34 Design to API 608	PBV Threaded & SW Ball Valves FE_PBV_ThrdSW_0312 Page 8-9
Threaded & Socket welded Ball valves Series 5338/6338 5339/6339	BODY A	A105 A350 LF2 A182 F316 A182 F316L A182 F51 A182 F44 B564 N04400 B564 N06600 B564 N08810	NPT (1/4"-2")	//	//	ANSI Class: 150 300 600 800	Dimensions to ASME B16.34 Design to API 608	PBV Threaded & SW Ball Valves FE_PBV_ThrdSW_0312 Page12-15

2025-01828

FORUM
FORUM CANADA ULC d/b/a Pro-Tech Valve Sales
9503 – 12 Avenue, S.W., Edmonton AB T6X 0C3
825.410.1200 [d] 780.469.1293 [f]
www.f-e-t.com

SCOPE OF DESIGN REGISTRATION

ADDITION of STARLINE S.p.A. (MANUFACTURING LOCATION) to P.B.V. CRN 0C1003.9

(EXPIRES 23-MAY-2024)

26-MARCH -2019

				Design Condition					
Product Description	**Primary Pressure Bearing / Retaining Component**	**Material of Construction**	**End Connections and Size Range**	**Pressure at Ambient Temp.**	**Pressure at Design Temp**	**MDMT**	**Pressure Class or Schedule**	**Design Code of Construction or Standard**	**Catalogue**
Threaded & Socket Welded Ball Valves Series 5333/6333	BODY A	A105 A350 LF2 A182 F316L A182 F316 A182 F51 A182 F44 B564 N04400 B564 N06600 B564 N08810	NPT (1/4"-2")				ANSI Class: 150 300 600 800	Dimensions to ASME B16.34 Design to API 608	PBV Threaded & SW Ball Valves FE_PBV_ThrdSW_0312 Pages 6-7
Threaded & Socket Welded Ball Valves Series 5331/6331	BODY A	A105 A350 LF2 A182 F316L A182 F316 A182 F51 A182 F44 B564 N04400 B564 N06600 B564 N08810	NPT (1/4"-2")				ANSI Class: 150 300 600	Dimensions to ASME B16.34 Design to API 608	PBV Threaded & SW Ball Valves FE_PBV_ThrdSW_0312 Pages 8-9
Threaded & Socket Welded Ball Valves Series 5338/6338 5339/6339	BODY A	A105 A350 LF2 A182 F316L A182 F316 A182 F51 A182 F44 B564 N04400 B564 N06600 B564 N08810	NPT (1/4"-2")				ANSI Class: 150 300 600	Dimensions to ASME B16.34 Design to API 608	PBV Threaded & SW Ball Valves FE_PBV_ThrdSW_0312 Pages 12-15

FORUM ENERGY TECHNOLOGIES VALVE SOLUTIONS	CALCULATION NOTE: PBV SERIES 5333/6333 and 5331/6331 CL. 150	Date : 8-NOV-2019 Page : 1/6 Rev : 0

VALVE TYPE : Three pieces floating ball valve — **DIMENSION** : DN 10-100 Full Bore / DN 15-150 Reduced Bore

PN : 20 — **CLASS** : 150

Description	Symbol	Unit	FB	08-10	15	20	25	32	40	50	65	80	100 *
			RB	15	20	25	32	40	50	65	80	100	150 *
MINIMUM THICKNESS OF BODY / ENDS													
Pressure Class Rating	P_c			150	150	150	150	150	150	150	150	150	150
Internal body diameter	D	mm		20,7	25,5	35,1	44,7	54,2	63,7	78,7	101	121	159
Internal flange diameter d1	D_2	mm		-	15,7	20	25,5	33	38	50,5	64	76	102
Internal flange diameter d2	D_3	mm		15,7	21	25,5	33	38	50,5	64	76	102	150
Axial hole	h	mm		8	8	10	10	12	12	12	12	12	14
Actual thickness BODY	t	mm		22,52	22,25	26,63	27,5	29,7	29,06	29,9	28	29,5	40
Actual inner ligaments	f	mm		9,65	10,25	10,45	10,65	10,9	11,15	11,6	9,5	12,5	13,5
Actual external ligaments	g	mm		4,87	4	6,18	6,85	6,8	5,91	6,3	6,5	5	12,5
Actual thickness t_1 FB	t_1	mm		-	11,15	10	12,25	11,5	13,5	14,75	18	22	22
Actual thickness t_2 RB	t_2	mm		11,15	13,5	14,25	15,5	16	16,75	18	16,5	14	24,1
Additional corrosion allowance	A	mm		6	6	6	6	6	6	6	6	6	6
Minimum thickness BODY	$t_{m,D}$	mm		10	10	10,6	11,3	11,6	11,8	12,1	12,4	12,7	13,3
Minimum thickness FB	$t_{m,D2}$	mm		-	9,4	9,7	10	10,5	10,8	11,6	11,8	12,1	12,4
Minimum thickness RB	$t_{m,D3}$	mm		9,4	9,7	10	10,5	10,8	11,6	11,8	12,1	12,4	13,2
$t > (t_{m,D}+h)$	V1	mm		17,7	18	20,6	21,3	23,6	23,8	24,1	24,4	24,7	27,3
$f > 0,25*(t_{m,D}-A)+A$	V2	mm		6,925	7	7,15	7,325	7,4	7,45	7,525	7,60	7,68	7,825
$g > 0,25*(t_{m,D}-A)$	V3	mm		0,925	1	1,15	1,325	1,4	1,45	1,525	1,60	1,68	1,825
$f + g > t_{m,D}$	V4	mm		9,7	10	10,6	11,3	11,6	11,8	12,1	12,4	12,7	13,3
$t_1 > t_{m,D2}$	V5	mm		-	9,4	9,7	10	10,5	10,8	11,6	11,8	12,1	12,4
$t_2 > t_{m,D3}$	V6	mm		9,4	9,7	10	10,5	10,8	11,6	11,8	12,1	12,4	13,2

FORUM ENERGY TECHNOLOGIES VALVE SOLUTIONS	CALCULATION NOTE: PBV SERIES 5333/6333 and 5331/6331 CL. 300	Date : 8-NOV-2019 Page : 2/6 Rev : 0

VALVE TYPE :	Three pieces floating ball valve	**DIMENSION** :	DN 10-100 Full Bore / DN 15-150 Reduced Bore
PN :	50	**CLASS** :	300

Description	Symbol	Unit	FB	08-10	15	20	25	32	40	50	65	80	100 *
			RB	15	20	25	32	40	50	65	80	100	150 *
MINIMUM THICKNESS OF BODY / ENDS													
Pressure Class Rating	P_c			300	300	300	300	300	300	300	300	300	300
Internal body diameter	D	mm		20,7	25,5	35,1	44,7	54,2	63,7	78,7	101	121	159
Internal flange diameter d1	D_2	mm		-	15,7	20	25,5	33	38	50,5	64	76	102
Internal flange diameter d2	D_3	mm		15,7	21	25,5	33	38	50,5	64	76	102	150
Axial hole	h	mm		8	8	10	10	12	12	12	12	12	14
Actual thickness	t	mm		22,52	22,25	26,63	27,5	29,7	29,06	29,9	28	29,5	40
Actual inner ligaments	f	mm		9,65	10,25	10,45	10,65	10,9	11,15	11,6	9,5	12,5	13,5
Actual external ligaments	g	mm		4,87	4	6,18	6,85	6,8	5,91	6,3	6,5	5	12,5
Actual thickness t_1	t_1	mm		-	11,15	10	12,25	11,5	13,5	14,75	18	22	22
Actual thickness t_2	t_2	mm		11,15	13,5	14,25	15,5	16	16,75	18	16,5	14	24,1
Additional corrosion allowance	A	mm		6	6	6	6	6	6	6	6	6	6
Minimum thickness	$t_{m,D}$	mm		10	10,4	11	11,7	12,2	12,6	13	13,8	14,4	15,7
Minimum thickness	$t_{m,D2}$	mm		-	9,6	9,9	10,4	10,9	11,2	12,1	12,6	13	13,8
Minimum thickness	$t_{m,D3}$	mm		9,6	10	10,4	10,9	11,2	12,1	12,6	13	13,8	15,4
$t > (t_{m,D}+h)$	$V1$	mm		18	18,4	21	21,7	24,2	24,6	25	25,8	26,4	29,7
$f > 0,25*(t_{m,D}-A)+A$	$V2$	mm		7	7,1	7,25	7,425	7,55	7,65	7,75	7,95	8,10	8,425
$g > 0,25*(t_{m,D}-A)$	$V3$	mm		1	1,1	1,25	1,425	1,55	1,65	1,75	1,95	2,10	2,425
$f + g > t_{m,D}$	$V4$	mm		10	10,4	11	11,7	12,2	12,6	13	13,8	14,4	15,7
$t_1 > t_{m,D2}$	$V5$	mm		-	9,6	9,9	10,4	10,9	11,2	12,1	12,6	13	13,8
$t_2 > t_{m,D3}$	$V6$	mm		9,6	10	10,4	10,9	11,2	12,1	12,6	13	13,8	15,4

FORUM ENERGY TECHNOLOGIES VALVE SOLUTIONS	CALCULATION NOTE: PBV SERIES 5333/6333 and 5331/6331 CL. 600	Date : 8-NOV-2019 Page : 3/6 Rev : 0

VALVE TYPE	:	Three pieces floating ball valve	**DIMENSION**	:	DN 10-65 Full Bore / DN 15-80 Reduced Bore					
PN	:	100	**CLASS**	:	600					

Description	Symbol	Unit	FB	08-10	15	20	25	32	40	50	65
			RB	15	20	25	32	40	50	65	80
MINIMUM THICKNESS OF BODY / ENDS											
Pressure Class Rating	P_c			600	600	600	600	600	600	600	600
Internal body diameter	D	mm		20,7	25,5	35,1	44,7	54,2	63,7	78,7	101
Internal flange diameter d1	D_2	mm		-	15,7	20	25,5	33	38	50,5	64
Internal flange diameter d2	D_3	mm		15,7	21	25,5	33	38	50,5	64	76
Axial hole	h	mm		8	8	10	10	12	12	12	14
Actual thickness	t	mm		22,52	22,25	26,63	27,5	29,7	29,06	29,9	30
Actual inner ligaments	f	mm		9,65	10,25	10,45	10,65	10,9	11,15	11,6	9,5
Actual external ligaments	g	mm		4,87	4	6,18	6,85	6,8	5,91	6,3	6,5
Actual thickness t_1	t_1	mm		-	11,15	14	11,75	11,5	13,5	14,75	18
Actual thickness t_2	t_2	mm		11,15	13,5	14,25	15,5	16	16,75	18	16,5
Additional corrosion allowance	A	mm		6	6	6	6	6	6	6	6
Minimum thickness	$t_{m,D}$	mm		10	10,8	11,4	11,9	12,5	13,1	14,2	15,7
Minimum thickness	$t_{m,D2}$	mm		-	9,9	10,3	10,8	11,3	11,6	12,2	13,2
Minimum thickness	$t_{m,D3}$	mm		9,9	10,4	10,8	11,3	11,6	12,2	13,2	14
$t > (t_{m,D}+h)$	V1	mm		18,4	18,8	21,4	21,9	24,5	25,1	26,2	29,7
$f > 0,25*(t_{m,D}-A)+A$	V2	mm		7,1	7,2	7,35	7,475	7,625	7,78	8,05	8,43
$g > 0,25*(t_{m,D}-A)$	V3	mm		1,1	1,2	1,35	1,475	1,625	1,78	2,05	2,43
$f + g > t_{m,D}$	V4	mm		10,4	10,8	11,4	11,9	12,5	13,1	14,2	15,7
$t_1 > t_{m,D2}$	V5	mm		-	9,9	10,3	10,8	11,3	11,6	12,2	13,2
$t_2 > t_{m,D3}$	V6	mm		9,9	10,4	10,8	11,3	11,6	12,2	13,2	14

FORUM ENERGY TECHNOLOGIES VALVE SOLUTIONS	CALCULATION NOTE: PBV SERIES 5333/6333 and 5331/6331 CL. 800	Date : 8-NOV-2019 Page : 4/6 Rev : 0

VALVE TYPE :	Three pieces floating ball valve	**DIMENSION** :	DN 10-50 Full Bore / DN 15-65 Reduced Bore
PN :	138	**CLASS** :	800

Description	Symbol	Unit	FB	08-10	15	20	25	32	40	50
			RB	15	20	25	32	40	50	65
MINIMUM THICKNESS OF BODY / ENDS										
Pressure Class Rating	P_c			800	800	800	800	800	800	800
Internal body diameter	D	mm		20,7	25,5	35,1	44,7	54,2	63,7	78,7
Internal flange diameter d1	D_2	mm		11,1	14,2	20,5	25,4	32,7	38	49
Internal flange diameter d2	D_3	mm		13,8	18,85	24,3	32,7	38,1	49	59
Axial hole	h	mm		8	8	10	10	12	14	14
Actual thickness	t	mm		22,52	22,25	26,63	27,5	29,7	31,06	31,9
Actual inner ligaments	f	mm		9,65	10,25	10,45	10,65	10,9	11,15	11,6
Actual external ligaments	g	mm		4,87	4	6,18	6,85	6,8	5,91	6,3
Actual thickness t_1	t_1	mm		10,1	11,5	12,75	14,8	15,15	18,25	17,25
Actual thickness t_2	t_2	mm		10,5	11,3	12,1	13,4	13,9	14,2	14,9
Additional corrosion allowance	A	mm		6	6	6	6	6	6	6
Minimum thickness	$t_{m,D}$	mm		11	12,4	13	13,5	14,3	15,2	16,8
Minimum thickness	$t_{m,D2}$	mm		10	10,5	11,4	12,4	12,8	13,1	13,8
Minimum thickness	$t_{m,D3}$	mm		10,4	11,2	12	12,8	13,1	13,8	14,8
$t > (t_{m,D}+h)$	V1	mm		19,4	20,4	23	23,5	26,3	29,2	30,8
$f > 0,25*(t_{m,D}-A)+A$	V2	mm		7,35	7,6	7,75	7,875	8,075	8,30	8,7
$g > 0,25*(t_{m,D}-A)$	V3	mm		1,35	1,6	1,75	1,875	2,075	2,30	2,7
$f + g > t_{m,D}$	V4	mm		11,4	12,4	13	13,5	14,3	15,2	16,8
$t_1 > t_{m,D2}$	V5	mm		10	10,5	11,4	12,4	12,8	13,1	13,8
$t_2 > t_{m,D3}$	V6	mm		10,4	11,2	12	12,8	13,1	13,8	14,8

FORUM ENERGY TECHNOLOGIES VALVE SOLUTIONS	CALCULATION NOTE: PBV SERIES 5338/6338 and 5339/6339 CL. 900-1500	Date : 8-NOV-2019 Page : 5/6 Rev : 0

VALVE TYPE	:	Three pieces floating ball valve	**DIMENSION**	:	DN 15-50 Full Bore	
PN	:	250	**CLASS**	:	1500	

Description	Symbol	Unit	FB	15	20	25	32	40	50
MINIMUM THICKNESS OF BODY / ENDS									
Pressure Class Rating	P_c			1500	1500	1500	1500	1500	1500
Internal body diameter	D	mm		28	36,5	44,7	63,7	63,7	78,7
Internal flange diameter d1	D_2	mm		11,1	15,5	21	34	34	44,5
Internal flange diameter d2	D_3	mm		11,1	15,5	21	34	34	44,5
Axial hole	h	mm		10	12	14	14	14	14
Actual thickness	t	mm		28,4	33,75	38,1	35,65	35,65	38,15
Actual inner ligaments	f	mm		12,4	15,25	16,6	13,65	13,65	13,65
Actual external ligaments	g	mm		6	6,5	7,5	8	8	10,5
Actual thickness t_1	t_1	mm		13,45	16,25	16,5	18	18	20,25
Actual thickness t_2	t_2	mm		13,45	16,25	16,5	18	18	20,25
Additional corrosion allowance	A	mm		6	6	6	6	6	6
Minimum thickness	$t_{m,D}$	mm		13,8	15,3	16,8	20,3	20,3	23,1
Minimum thickness	$t_{m,D2}$	mm		10,6	11,4	12,5	14,9	14,9	16,8
Minimum thickness	$t_{m,D3}$	mm		10,6	11,4	12,5	14,9	14,9	16,8
$t > (t_{m,D}+h)$	V1	mm		23,8	27,3	30,8	34,3	34,3	37,1
$f > 0,25*(t_{m,D}-A)+A$	V2	mm		7,95	8,33	8,7	9,575	9,58	10,275
$g > 0,25*(t_{m,D}-A)$	V3	mm		1,95	2,33	2,7	3,575	3,58	4,275
$f + g > t_{m,D}$	V4	mm		13,8	15,3	16,8	20,3	20,3	23,1
$t_1 > t_{m,D2}$	V5	mm		10,6	11,4	12,5	14,9	14,9	16,8
$t_2 > t_{m,D3}$	V6	mm		10,6	11,4	12,5	14,9	14,9	16,8

FORUM ENERGY TECHNOLOGIES VALVE SOLUTIONS	CALCULATION NOTE: PBV SERIES 5338/6338 and 5339/6339 CL. 2500	Date : 8-NOV-2019 Page : 6/6 Rev : 0

VALVE TYPE	:	Three pieces floating ball valve	**DIMENSION**	:	DN 15-25 Full Bore
PN	:	420	**CLASS**	:	2500

Description	Symbol	Unit	FB	15	20	25
MINIMUM THICKNESS OF BODY / ENDS						
Pressure Class Rating	P_c			2500	2500	2500
Internal body diameter	D	mm		28	36,5	44,7
Internal flange diameter d1	D_2	mm		11	15,5	21
Internal flange diameter d2	D_3	mm		11	15,5	21
Axial hole	h	mm		10	12	14
Actual thickness	t	mm		28,4	33,75	38,1
Actual inner ligaments	f	mm		12,4	15,25	16,6
Actual external ligaments	g	mm		6	6,5	7,5
Actual thickness t_1	t_1	mm		13,5	16,25	16,5
Actual thickness t_2	t_2	mm		13,5	16,25	16,5
Additional corrosion allowance	A	mm		6	6	6
Minimum thickness	$t_{m,D}$	mm		18,1	21	23,8
Minimum thickness	$t_{m,D2}$	mm		12,3	13,9	15,7
Minimum thickness	$t_{m,D3}$	mm		12,3	13,9	15,7
$t > (t_{m,D}+h)$	V1	mm		28,1	33	37,8
$f > 0,25*(t_{m,D}-A)+A$	V2	mm		9,025	9,75	10,45
$g > 0,25*(t_{m,D}-A)$	V3	mm		3,025	3,75	4,45
$f + g > t_{m,D}$	V4	mm		18,1	21	23,8
$t_1 > t_{m,D2}$	V5	mm		12,3	13,9	15,7
$t_2 > t_{m,D3}$	V6	mm		12,3	13,9	15,7

ACI Central Inc.

20 McAulay Court
Charlottetown, PE C1A 9M7
Canada

Detail Information - Revision - Pressure Fitting Design

CRN: 0C1003.9870YTN REV1

Manufacturer: Forum Energy Technologies - Valve Solutions

FID/PV: FID-14969

Trademark: "P.B.V". Enclosed In A 2 piece solid circular Shape (red color on top solid; blue color on bottom solid)

Description: Rev. is 10 year renl of CRN. 2-Pc. trunnion supp. ball valves; 5700/6700 ser. 3-Pc. trunn supp. ball valves; Unibody and 2-Pc. fld floating ball valves; Thd & SW valves; Sealwelded ball valves; Unibody thd. floating ball valves; API 6D F.E. swing style chk valves; Frged floating ball valves(P134/P135 to P334/P335)

Design code: ASME B16.34, API 6D, API 608, MSS SP-72.

Registration date: 05/26/2014

Expiry date: 05/23/2024

Pressure Rating	Type	Size	Material
Cl.150 to 600	5800/6800	2" to 16"	A216 WCB/WCC;A352LCC
Cl.150 to 2500	5700/6700	2" to 56"	A105/A350LF2
Cl.150 to 600	4400/6400,4500/6500	1/2" to 12"	WCB; LCC; CF8M;A350LF2
	5400 & 6415		
Cl.150to1500;Upto5000psi(SW&..	P134/P234/P334,P135/P2...	1/2" to 4"	A105;CF8M;LF2
Cl.150 to 2500	5333/6333,5331/6331,6336	1/2" to 4"	A350LF2;A182F316
	5338/6338,5339/6339		A105 & other B16.34
Up to 2000WOG	6322	1/4" to 4"	CF8M or WCB&B16.34 others
2000WOG	5312	1/4" to 2"	A216WCB;A351CF8M
Cl.150 to 1500	P800/P900	2" to 24"	WCC; LCC & other B16.34

Valve Solutions -DSI
12735 Dairy Ashford Rd.
Stafford, TX 77477

281-637-2000 281-565-3171 [F] www.f-e-t.com

January 29, 2020

Ref: Forum Energy Technology PBV Brand CRN 0C1003.92 for Alberta.

Attn: Alberta Boilers Safety Association (ABSA)

Forum Energy Technologies – Valve Solutions outsources the manufacture of few PBV branded valves to Starline S.p.A. factory in Italy. We Forum Energy Technologies Valve Solutions - PBV are responsible for the Quality of this product and warranty per Forum's terms and condition.

Please contact me if you have any further questions and/or comments.

Regards,

Tom Riner
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tom.riner@f-e-t.com