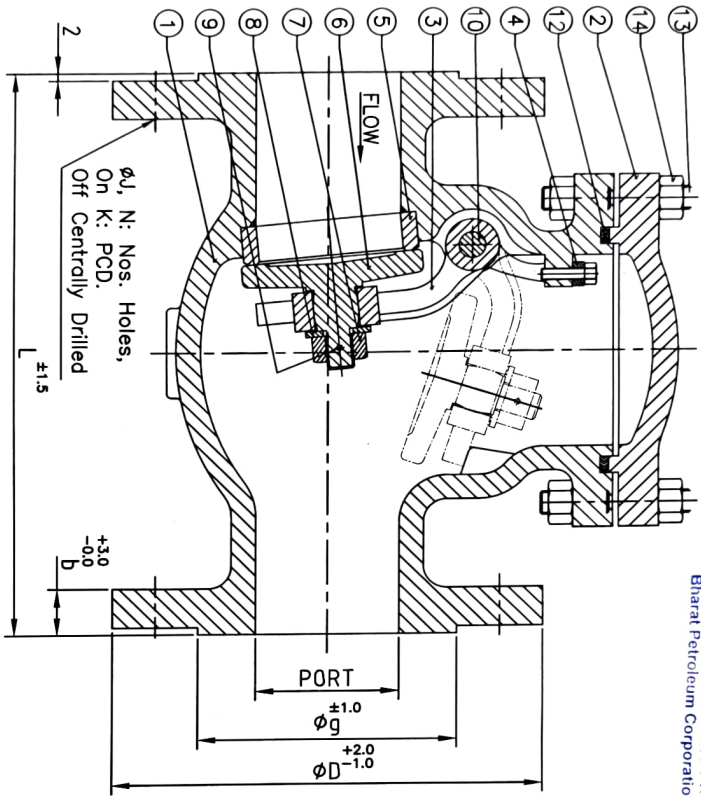


APPROVAL OF DRAWING/DATASHEET/DA/P
ITP DOES NOT ABSOLVE THE VENDOR FROM
HIS OBLIGATIONS TO COMPLY WITH THE PO/
CONTRACT SPECIFICATIONS.



श्रीराम कुमार सिंह
SAURABH KUMAR SINGH
मुख्य प्रबंधक, अभियंत्रण (मशीन) & एवं भी सुधारक
Chief Manager Engg. (Mech.) & Exp. H.Q.
भारत पेट्रोलेียม कॉर्पोरेशन लिमिटेड
Bharat Petroleum Corporation Limited



SIZE	PORT	L	ØD	b	Øg	ØJ	N	K:P:CD
50	51	203	150	16.3	92.1	19.1	04	120.7
80	76	241	190	19.5	127.0	19.1	04	152.4
100	102	292	230	24.3	157.2	19.1	08	190.5

As per BS 1868
and ASME B16.5

Note:
-> Seat ring & Disc to have minimum 250BHN hardness with difference in hardness of 50BHN
between seat ring & disc
-> An Arrow indicating the direction of flow shall be embossed or cast on the body
-> External and Internal painting scheme as per BPCL technical specifications.

DT.
REV.
DVPL-CA-A4

Client: BPCL
P.O. NO.: 4601046683
DATE: 31.01.2025

श्रीराम कुमार सिंह
SHANTANU GHOSAL
मुख्य प्रबंधक, अभियंत्रण (मशीन) & एवं भी सुधारक
Chief Manager Engg. - MECH. (E & P), H.Q.
GENERAL MANAGER ENG. - MECH. (E & P), H.Q.

ENGINEERING DATA	
MANUFACTURING STD.	BS 1868
FACE TO FACE	ASME B 16.10, 150#
END CONNECTION	FLANGED ENDS TO ASME B16.5 RF
INSPECTION AND TESTING STD.	API 598
HYDRO TEST : 150#	
BODY	SEAT
32 KG/CM ²	22 KG/CM ²

P.No	Qty	Nomenclature	Material
14	Req.	COVER NUTS	ASTM A194, Gr.2H
13	Req.	COVER STUDS	ASTM A193 Gr.87
12	1	COVER GASKET	SP WND SS 316 GRAFOIL FILLER
-	-	--	--
10	1	HINGE PIN	AISI 410
9	1	COTTER PIN	CS
8	1	DISC WASHER	AISI 410
7	1	DISC RETAINING NUT	AISI 304
6	1	DISC	A217 Gr. CA15 (min 15% Cr)
5	1	SEAT RING	A217 Gr. CA15 (min 13% Cr)
4	1	BRACKET	ASTM A 216 Gr. WCB
3	1	HINGE	ASTM A 216 Gr. WCB
2	1	COVER	ASTM A 216 Gr. WCB
1	1	BODY	ASTM A 216 Gr. WCB

DESCRIPTION : SWING CHECK VALVE - 150#

SIZE : AS SHOWN. DRN. A.M 18/04/25

ENDS : AS SHOWN. APD. A.N.S 18/04/25

DINTECH VALVES PVT.LTD. DRG.NO.:DVPL/SWC/80/150#/FL

AHMEDABAD SCALE : N.T.S. SH. 1of1

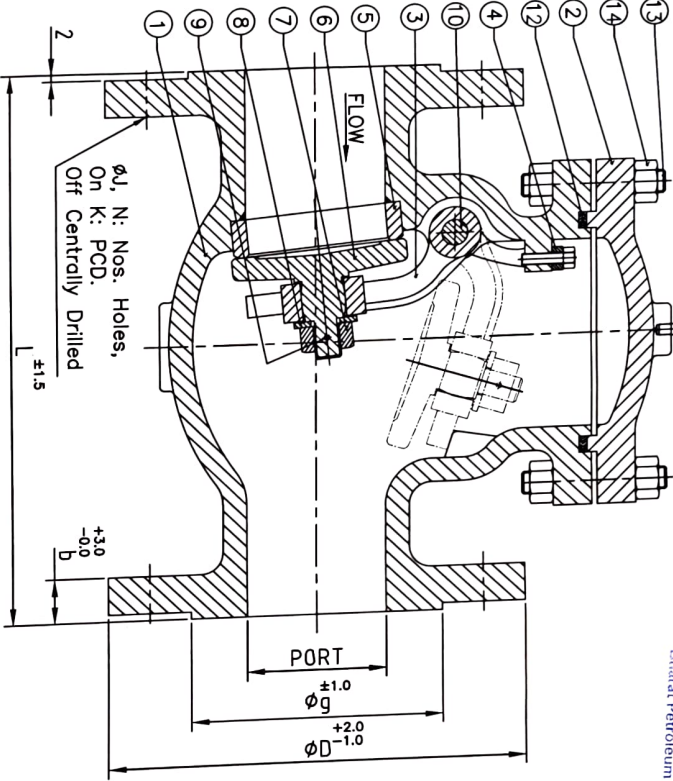


APPROVAL OF DRAWING/DATASHEET/QAP/
ITP DOES NOT ABSOLVE THE VENDOR FROM
HIS OBLIGATIONS TO COMPLY WITH THE PO/
CONTRACT SPECIFICATIONS.

(For 6" & Above Size)

SAURABH KUMAR SINGH
Chief Manager Engg. (Mech) / E&P HQ
Bharat Petroleum Corporation Limited

SHANTANU GHOSAL
General Manager Engg. - MECH. (E & P) HQ



SIZE	PORT	L	ØD	b	dg	ØJ	N	K:PCD
150	152	356	280	25.9	215.9	22.2	08	241.3
200	203	495	345	29.0	269.9	22.2	08	298.5
250	254	622	405	30.6	323.8	25.4	12	362.0
500	489	978	700	43.3	584.2	31.8	20	635.0

As per IS 1868
& ASME B 16.5

Note:

- > Seat ring & Disc to have minimum 250BHN hardness with difference in hardness of 50BHN between seat ring & disc
- > An Arrow indicating the direction of flow shall be embossed or cast on the body
- > External and Internal painting scheme as per BPCL technical specifications.

Client:
P.O. NO. :
DATE. :

BPCL
4601046683
31.01.2025

ENGINEERING DATA	
MANUFACTURING STD.	BS 1868
FACE TO FACE	ASME B 16.10, 150#
END CONNECTION	FLANGED ENDS TO ASME B16.5 RF
INSPECTION AND TESTING STD.	API 598
HYDRO TEST : 150#	
BODY	SEAT
32 KG/CM ²	22 KG/CM ²

P.No	Qty	Nomenclature	Material
15	1	LIFTING EYE BOLT	CARBON STEEL
14	Req.	COVER NUTS	ASTM A194 Gr.2H
13	Req.	COVER STUDS	ASTM A193 Gr.B7
12	1	COVER GASKET	SP WND SS 316 GRAFOIL FILLER
-	-	--	--
10	1	HINGE PIN	ALSI 4.10
9	1	COTTER PIN	CS
8	1	DISC WASHER	ALSI 4.10
7	1	DISC RETAINING NUT	ALSI 304
6	1	DISC	WCB + 13% Cr. FACING 16 MM Thick Min.
5	1	SEAT RING	WCB + 13% Cr. FACING 16 MM Thick Min.
4	1	BRACKET	ASTM A 216 Gr. WCB
3	1	HINGE	ASTM A 216 Gr. WCB
2	1	COVER	ASTM A 216 Gr. WCB
1	1	BODY	ASTM A 216 Gr. WCB

DESCRIPTION : SWING CHECK VALVE - 150#

SIZE	: AS SHOWN.	DRN.	A.M	18/04/25
ENDS	: AS SHOWN.	APD.	A.N.S	18/04/25

DINTECH VALVES PVT.LTD.

AHMEDABAD

SCALE : N.T.S.

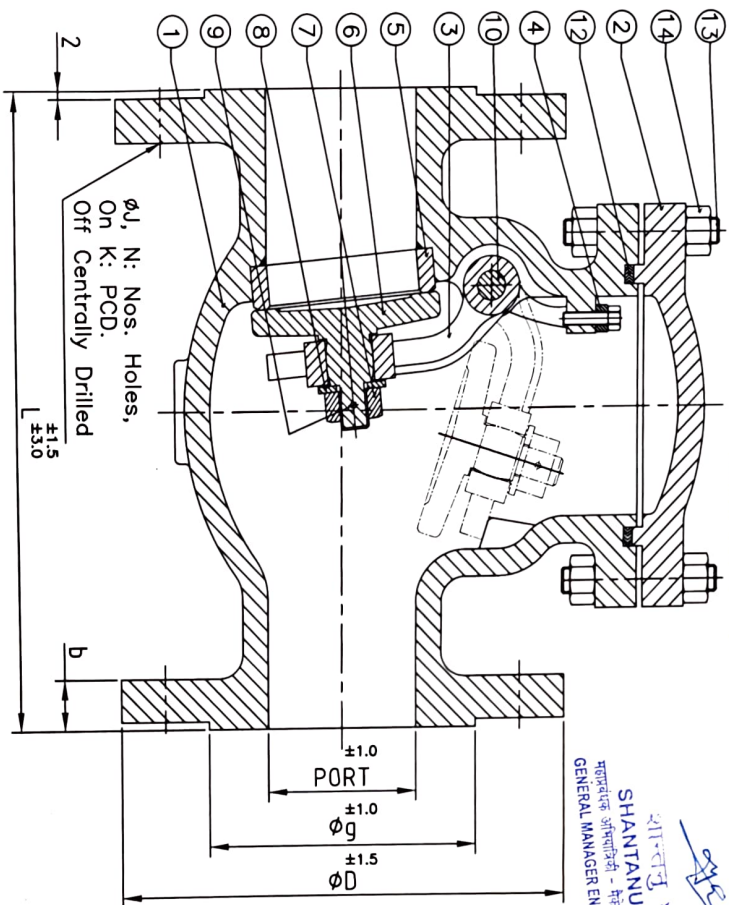
SH. 1of1



APPROVAL OF DRAWING/DATASHEET/QAP/
ITP DOES NOT ABSOLVE THE VENDOR FROM
HIS OBLIGATIONS TO COMPLY WITH THE PO/
CONTRACT SPECIFICATIONS.

श्रीराम कुमार सिंह
SAURABH KUMAR SINGH
मुख्य प्रबंधक, अभियांत्रिकी (निरीक्षण) & एवं बी. प्रशासन
Chief Manager Engrg. (Mech) E&P HQ
भारत पेट्रोलेम कॉर्पोरेशन लिमिटेड
Bhadrat Petroleum Corporation Limited

शान्तनु घोषल
SHANTANU GHOSAL
मुख्य प्रबंधक, अभियांत्रिकी - भंडारण & एवं बी. प्रशासन
GENERAL MANAGER ENGG. - MECH. (E & P), HQ



SIZE	PORT	L	ØD	b	Øg	ØJ	N	K:PCD
50	51	267	165	22.7	92.1	19	08	127
80	76	318	210	29.0	127.0	22.2	08	168.3
100	102	356	255	32.2	157.2	22.2	08	200.0

Note:

- > Seat ring & Disc to have minimum 250BHN hardness with difference in hardness of 50BHN between seat ring & disc
- > An Arrow indicating the direction of flow shall be embossed or cast on the body
- > External and Internal painting scheme as per BPCL technical specifications.

Client.:
P.O. NO. :
DATE. :

BPCL
4601046683
31.01.2025

ENGINEERING DATA	
MANUFACTURING STD.	BS 1868
FACE TO FACE	ASME B16.10, 300#
END CONNECTION	Flanged Ends To ASME B16.5 RF
INSPECTION AND TESTING STD.	API 598

HYDRO TEST : 300#	
BODY	SEAT
78 KG/CM ²	58 KG/CM ²

P.No	Qty	Nomenclature	Material
14	Req.	COVER NUTS	ASTM A194 Gr.2H
13	Req.	COVER STUDS	ASTM A193 Gr.B7
12	1	COVER GASKET	SP WND SS 316 GRAFOIL FILLER
-	-	--	--
10	1	HINGE PIN	AISI 410
9	1	COTTER PIN	CS
8	1	DISC WASHER	AISI 410
7	1	DISC RETAINING NUT	AISI 304
6	1	DISC	ASTM A217 Gr. CA15 min 15% Cr
5	1	SEAT RING	ASTM A217 Gr. CA15 min 15% Cr
4	1	BRACKET	ASTM A 216 Gr. WCB
3	1	HINGE	ASTM A 216 Gr. WCB
2	1	COVER	ASTM A 216 Gr. WCB
1	1	BODY	ASTM A 216 Gr. WCB

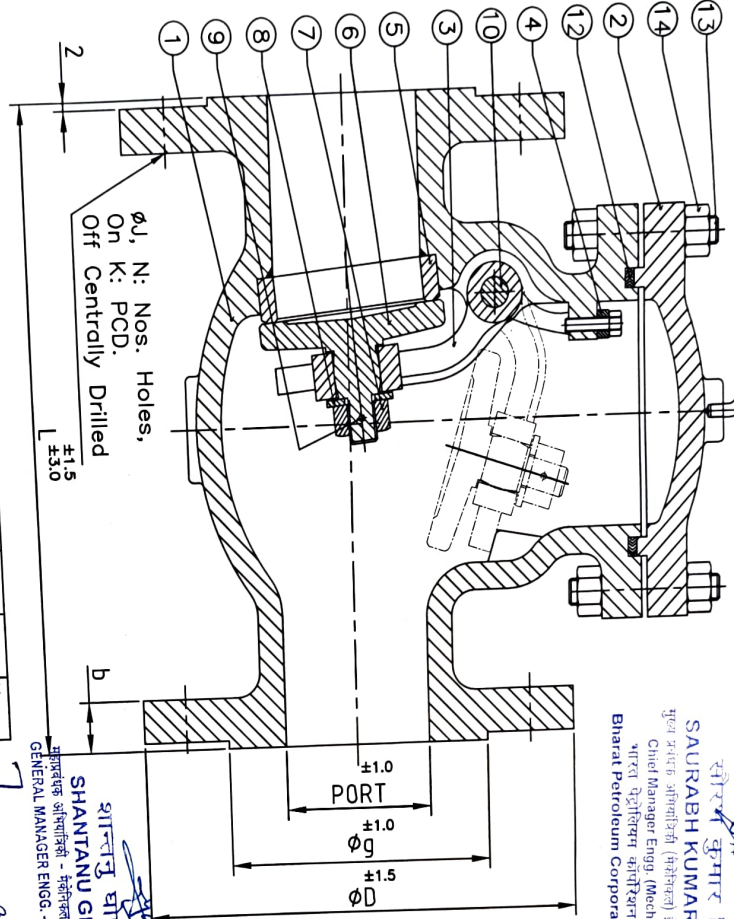
DESCRIPTION : : SWING CHECK VALVE - 300#			
SIZE	: AS SHOWN.	DRN.	A.M
ENDS	: AS SHOWN.	APD.	A.N.S.
DINTECH VALVES PVT.LTD.		DRG.NO.:DVPL/SWC/50-100/300#/FL	
AHMEDABAD		SCALE : N.T.S.	SH. 1of1



APPROVAL OF DRAWING/DATASHEET/OAP/
ITP DOES NOT ABSOLVE THE VENDOR FROM
HIS OBLIGATIONS TO COMPLY WITH THE PO/
CONTRACT SPECIFICATIONS.

(For 6" & Above Size)

SAURABH KUMAR SINGH
Chief Manager Engrg. (Mech), E&P HQ
Bhadrat Petroleum Corporation Limited



SIZE	PORT	L	ØD	b	Øg	ØJ	N	K:PCD
150	152	444	320	37.0	215.9	22.2	12	269.8
200	203	533	380	41.7	269.9	25.4	12	330.2
250	254	622	445	48.1	323.8	28.6	16	387.4
300	305	711	520	51.3	381.0	31.8	16	450.8
350	337	838	585	54.4	412.8	31.8	20	514.4

As per BS 1868
& ASME B16.5

ENGINEERING DATA	
MANUFACTURING STD.	BS 1868
FACE TO FACE	ASME B16.10, 300#
END CONNECTION	Flanged Ends To ASME B16.5 RF
INSPECTION AND TESTING STD.	API 598

HYDRO TEST : 300#	
BODY	SEAT
78 KG/CM ²	58 KG/CM ²

P.No	Qty	Nomenclature	Material
15	1	LIFTING EYE BOLT	CARBON STEEL
14	Req.	COVER NUTS	ASTM A194, Gr. 2H
13	Req.	COVER STUDS	ASTM A193 Gr. B7
12	1	COVER GASKET	SP WND SS 316 GRAFOIL FILLER
-	-	-	-
10	1	HINGE PIN	AISI 410
9	1	COTTER PIN	CS
8	1	DISC WASHER	AISI 410
7	1	DISC RETAINING NUT	AISI 304
6	1	DISC	WCB + 13% Cr. FACING 1.6 MM Thick Min.
5	1	SEAT RING	WCB + 13% Cr. FACING 1.6 MM Thick Min.
4	1	BRACKET	ASTM A 216 Gr. WCB
3	1	HINGE	ASTM A 216 Gr. WCB
2	1	COVER	ASTM A 216 Gr. WCB
1	1	BODY	ASTM A 216 Gr. WCB

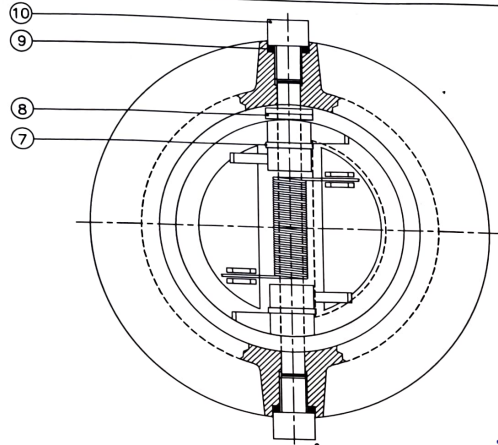
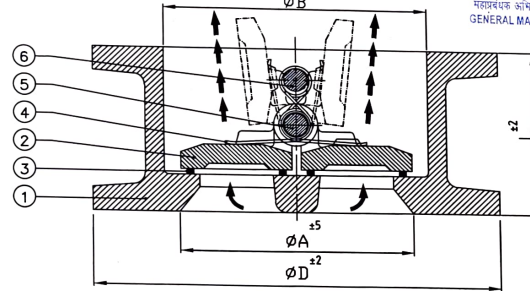
DESCRIPTION : : SWING CHECK VALVE - 300#			
SIZE	: AS SHOWN.	DRN.	A.M
ENDS	: AS SHOWN.	APD.	A.N.S.
DINTECH VALVES PVT.LTD.		DRG.No.:DVPL/SWC/150-350/300#/FL	SH. 1of1
AHMEDABAD		SCALE : N.T.S.	SH. 1of1

THIS DESIGN & DRAWING IS PROPERTY OF M/S DIN-
TECH VALVES PVT.LTD. MUST NOT BE COPIED OR
LENT WITHOUT PERMISSION IN WRITING.

DT.
REV.
DVPL-GA-A4

Note:
-> Seat ring & Disc to have minimum 250BHN hardness with difference in hardness of 50BHN
between seat ring & disc
-> An Arrow indicating the direction of flow shall be embossed or cast on the body
-> External and Internal painting scheme as per BPCL technical specifications.

Client.: BPCL
P.O. NO.: 4601046683
DATE.: 31.01.2025



Technical Data

Manufacturing Std.: ~~Generally conforming to~~ API 594
 Wall Thickness : ASME B16.34, 150#
 Face to Face : API 6D/ASME B16.10
 End Connection : WAFER TO SUIT ASME B16.5, 150#
 Inspection and Testing Std. : API 598

TEST PRESSURE, kg/sq.cm.		
TESTING	BODY	SEAT
HYDRAULIC	32	22

SIZE	L	ϕA	ϕB	ϕD	Tag.No.
100	73	100	113	173	--

Note:.

- > Seat ring & Disc to have minimum 250BHN hardness with difference in hardness of 50BHN between seat ring & disc
- > External and Internal painting scheme as per BPCL technical specifications.



APPROVAL OF DRAWING/DATASHEET/QAP/
 ITP DOES NOT ABSOLVE THE VENDOR FROM
 HIS OBLIGATIONS TO COMPLY WITH THE PO/
 CONTRACT SPECIFICATIONS.

शान्तनु घोषाल
SHANTANU GHOSAL
 महाप्रबंधक अभियंता - मैकेनिकल (ई एवं पी), मुंबई
 GENERAL MANAGER ENGG. - MECH. (E & P), HQ

सौरभ कुमार सिंह
SAURABH KUMAR SINGH
 मुख्य प्रबंधक अभियंता (मैकेनिकल) ई एवं पी मुंबई
 Chief Manager Enng. (Mech.) E&P HQ
 भारत पेट्रोलियम कॉर्पोरेशन लिमिटेड
 Bharat Petroleum Corporation Limited

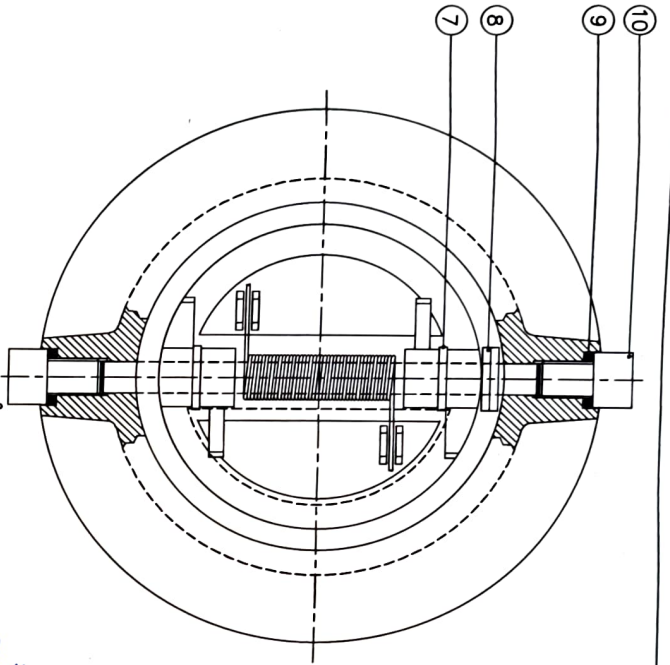
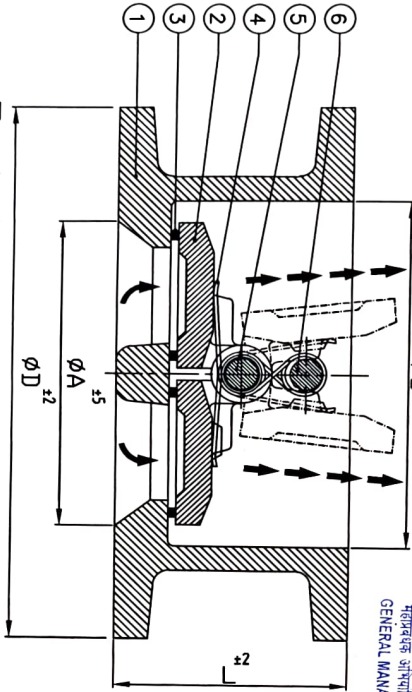
Client:.	BPCL
P.O. NO. :	4601046683
DATE. :	31.01.2025

P.No.	Qty	Nomenclature	Material
10	4	PLUGS	CARBON STEEL
9	4	SEALS	PTFE
8	Req.	BODY LUG BEARINGS	SS 410
7	Req.	PLATE LUG BEARINGS	SS 410
6	1	STOP PIN	SS 410
5	1	HINGE PIN	SS 410
4	Req.	SPRING	Inconel X-750
3	2	SEAT	ASTM A216 Gr. WCB + 13% Cr. Facing 1.6 MM Thick Min
2	2	CLOSURE PLATES	ASTM A217 Gr. CA15 (min 13% Cr) <u>Steel</u>
1	1	BODY	ASTM A216 Gr. WCB

DINTECH VALVE PVT. LTD.

AHMEDABAD

SIZE :	DRN.	A.M	18/04/25
ENDS : WAFER TYPE	CHD.	A.M	18/04/25
MATERIAL : AS SHOWN	APD.	H.P	18/04/25
DESCRIPTION : WAFER TYPE DUAL PLATE CHECK VALVE CLASS-150#	DRG. NO. DVPL/DPCV/300/WFR		
		SCALE: N.T.S.	SHEET 1 of 1



Technical Data

Manufacturing Std.: General Engineering to API 594
 Wall Thickness : ASME B16.34, 150#
 Face to Face : API 6D/ASME B16.10
 End Connection : WAFER TO SUIT ASME B16.5, 150#
 Inspection and Testing Std.: API 598

TEST PRESSURE, kg/sq.cm.		
TESTING	BODY	SEAT
HYDRAULIC	32	22

शान्तानु घोषाल
 SHANTANU GHOSAL
 GENERAL MANAGER ENGS. - MECH. (E & P) HQ

APPROVAL OF DRAWING/DATASHEET/OAP/
 TTP DOES NOT ABSOLVE THE VENDOR FROM
 HIS OBLIGATIONS TO COMPLY WITH THE PO/
 CONTRACT SPECIFICATIONS.



सागर कुमार सिंह
 SAURABH KUMAR SINGH
 Chief Manager Engrg. (Mech) E&P HQ
 Bharat Petroleum Corporation Limited

-> Seat ring & Disc to have minimum 250BHN hardness with difference in hardness of 50BHN
 between seat ring & disc
 -> External and internal painting scheme as per BPCL technical specifications.

Note:

SIZE	L	Ø A	Ø B	Ø D	Tag No.
300	181	302	315	407	---

API 594
 & ASME B16.5

Client: BPCL	
P.O. NO. : 4601046683	
DATE : 31.01.2025	

P.No.	Qty	Nomenclature	Material
10	4	PLUGS	CARBON STEEL
9	4	SEALS	PTFE
8	Req.	BODY LUG BEARINGS	SS 410
7	Req.	PLATE LUG BEARINGS	SS 410
6	1	STOP PIN	SS 410
5	1	HINGE PIN	SS 410
4	Req.	SPRING	Inconel X-750
3	2	SEAT	ASTM A216 Gr. WCB + 13% Cr. Facing 16 MM Thick Min.
2	2	CLOSURE PLATES	ASTM A216 Gr. WCB + 13% Cr. Facing 16 MM Thick Min.
1	1	BODY	ASTM A216 Gr. WCB (min 13% Cr)

DINTECH VALVE PVT. LTD.
 AHMEDABAD

SIZE	DRN.	A.M	18/04/25
ENDS : WAFER TYPE	CHD.	A.M	18/04/25
MATERIAL : AS SHOWN	APD.	H.P	18/04/25
DESCRIPTION : WAFER TYPE DUAL PLATE CHECK VALVE CLASS-150#	DRG. NO. DVPL/DPCV/300/WFR	SCALE: N.T.S.	SHEET 1 of 1