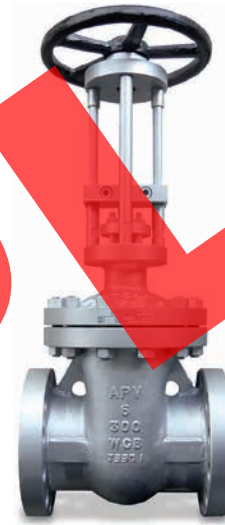
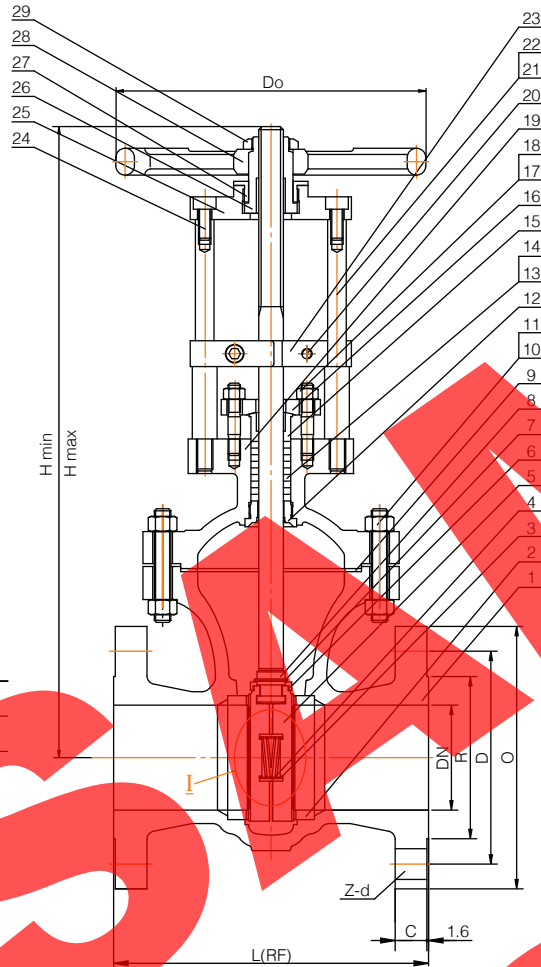




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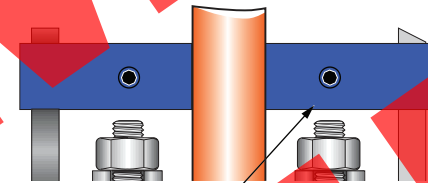
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BILL OF MATERIALS

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A216 WCB	-
2	SEAT RING	A105+STL 6#	-
3	SPRING	1065	-
4	SPRING COIL	ASTM A240 410	-
5	DISC	ASTM A216 WCB+410	-
6	BUSHING	ASTM A240 410	-
7	PIN	ASTM A240 410	-
8	STEM	ASTM A240 410	(1)
9	GASKET	SOFT IRON+GRAPHITE	-
10	BOLT	ASTM A193 B7	-
11	NUT	ASTM A194 2H	-
12	BACK SEAT RING	ASTM A182 F6	-
13	PACKING	FLEXIBLE GRAPHITE	(2)
14	PACKING	BRAIDED GRAPHITE	(2)
15	GLAND	ASTM A240 410	-
16	GLAND FLANGE	ASTM A216 WCB	-
17	BOLT	ASTM A193 B7	-
18	NUT	ASTM A194 2H	-
19	BONNET	ASTM A216 WCB	-
20	BOLT	ASTM A194 B7	-
21	SUPPORTING POLE	1045	-
22	GUIDE POST	1045	-
23	GUIDE BLOCK TORQUE ARM	1025	-
24	BOLT	ASTM A193 B7	-
25	SUPPORTING PLATE	1025	-
26	STEM NUT	D-2	-
27	RETAINING NUT	1035	-
28	HANDWHEEL	A47	-
29	HANDWHEEL NUT	1035	-

(1) STEM SMOOTHNESS ≤ Ra 0.80 μm
(2) STUFFING BOX SMOOTHNESS ≤ Ra 3.2 μm (SUPERIOR TO API 600)



Torque Arm

The torque arm prevents stem rotation which reduces wear on packing rings and enables better sealing as well as reducing torque. Only the stem nut rotates. The arm also provides visual stem position indication and can be interfaced with position switches.

DIMENSIONS (MM) & WEIGHT (KG)

Inch	DN	L(RF)	O	D	R	C	Z-d	Hmin	Hmax	Do	Weight
6"	150	403	317.5	269.7	215.9	37	undrilled	846	1006	350	137

Dimensions in millimeters

RATING	CL 300	TEST PRESSURE	
DESIGN & MFG.	ASME B16.34 & API600/BS5157	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	ASME B16.34	7.7 Mpa 1125 Psi	5.7 Mpa 825 Psi
FACE TO FACE DIM.	ASME B16.10	SEAT AIR	BACKSEAT
END CONNECTION	RF AS2129/TABLE H/AS4087 PN35	0.55 Mpa 80 Psi	5.7 Mpa 825 Psi
END DIMENSION	ASME B16.5 DRILLED TABLE H	TEMPERATURE	
TEST & INSPECTION	API 598-ISO 5208	-29 TO 538 °C	-20 TO 1000 °F
MARKING	MSS SP-25	MEDIUM	Steam, Oil, Gas
OTHER REQ.			
PORT SIZE	FULL PORT		
TRIM	TRIM #8		
NOTES	OPTIONAL HP & LP SEAT TEST PERFORMED		
OTHER	PAINT SPEC PPWF07.002 (SILVER)		

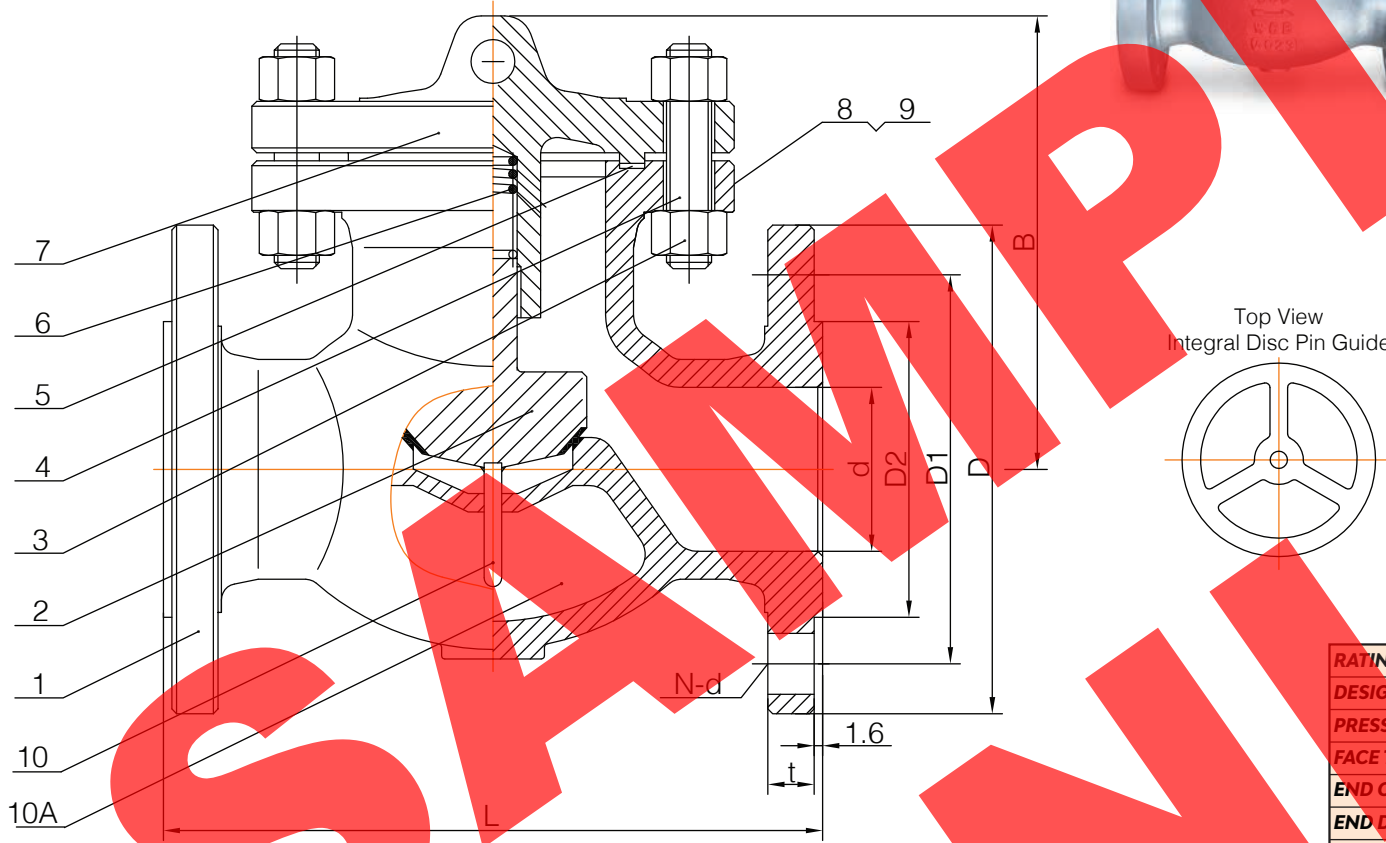
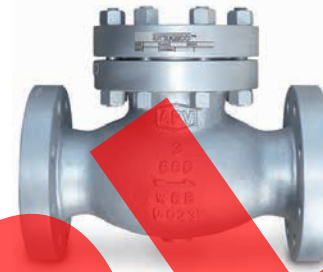
Manual Operated Parallel Slide Gate Valve
Pillar & Bridge Model AP-316SHXU-H,
NPS 6" (DN150) Class 300, AS2129 Table H/
AS4087 PN35

ORDER N°/ DWG N°	XXXXXX-99	APPROVED	B.T.
REV.	00	CHECKED	S.Q.
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BILL OF MATERIALS

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A216 WCB+STL6	-
2	DISC	ASTM A105+13CR	-
3	NUT	ASTM A194 2H	-
4	BOLT	ASTM A193 B7	-
5	GASKET	SS316+FLEXIBLE GRAPHITE	SPIRAL WOUND
6	SPRING	INCONEL X750	-
7	COVER	ASTM A216 WCB	-
8	RIVET	BRONZE	-
9	NAMEPLATE	SS316	-
10	GUIDE	ASTM A182 410SS	-
10A	CAGE	INTEGRAL	-

RATING	CL 300	TEST PRESSURE	
DESIGN & MFG.	ASME API 6D & BS1873 (API600 WALL)	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	ASME B16.34	7.7 Mpa 1125 Psi	5.7 Mpa 825 Psi
FACE TO FACE DIM.	ASME B16.10	SEAT AIR	BACKSEAT
END CONNECTION	RFSF 3.2~6.3Ra	Mpa Psi	Mpa Psi
END DIMENSION	ASME B16.5	TEMPERATURE	
TEST & INSPECTION	API 598/ ISO 5208	-29 TO 425 °C	-20 TO 797 °F
MARKING & PAINT	MSS SP-25 PAINT PPWF07.002	MEDIUM	Water, Oil, Steam
OTHER REQ.			
PORT SIZE	FULL PORT		
TRIM	API #8		
NOTES	CAGE & DISC GUIDED		
OTHER	INVESTMENT CAST		

DIMENSIONS (MM) & WEIGHT (KG)

Inch	DN	L	B	d	D	D1	D2	t	N-d	Weight
2"	50	267	197	165	127.0	92.0	23	8-19	330	29
3"	80	318	222	210	168.5	127.0	29	8-22	368	48
4"	100	356	276	254	200.0	157.0	32	8-22	470	70
6"	150	444	337	318	270.2	216.0	37	12-22	711	120
8"	200	533	413	380	330.2	270.0	42	12-25	816	200

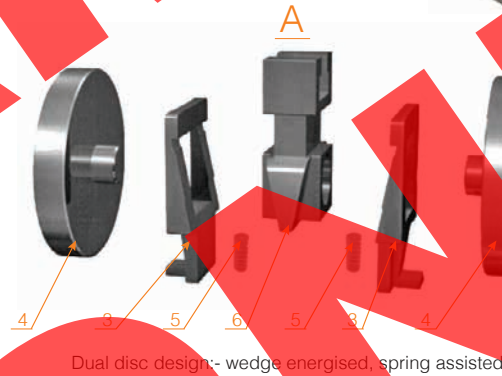
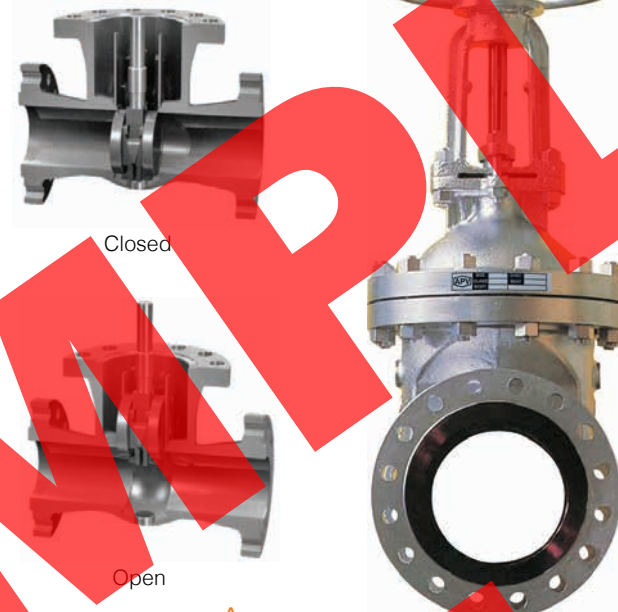
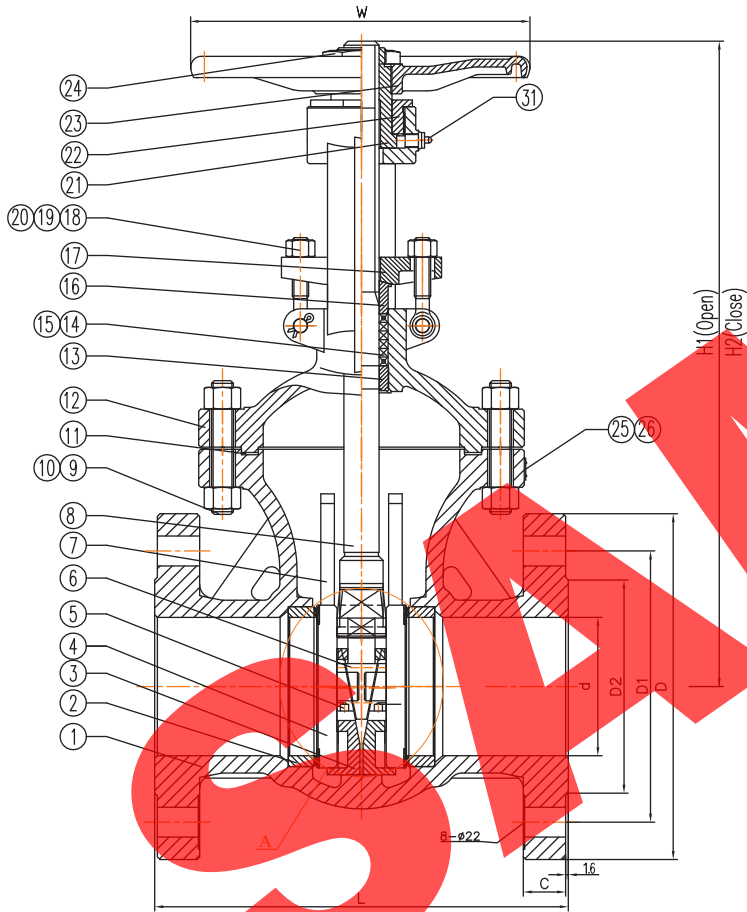
Dimensions in millimeters

Piston Check Valve Model AP-SLCLXU-Z, V-Plug NPS 2"~4" (DN50~DN100) Class 300, Cage & Disc Guided	ORDER N°/ DWG N°	XXXXXX-99	APPROVED	B.T.
	REV.	00	CHECKED	S.Q.
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BILL OF MATERIALS

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A217 WCB	-
2	SEAT RING	ASTM A105+STL.6	-
3	WEDGE BLOCKS	ASTM A743 CA40	-
4	PARALLEL DISCS	ASTM A105+STL.6	-
5	SPRINGS	INCONEL X-750	-
6	DISC YOKE	ASTM A743 C40	-
7	GUIDES	C.S.	-
8	STEM	ASTM A182 F6A	(1)
9	STUDS	ASTM A193 B7	-
10	NUTS	ASTM A194 2H	-
11	GASKET SPIRAL WOUND	304SS+GRAPHITE	ENCAPSULATED
12	BONNET	ASTM A216 WCB	-
13	BACKSEAT	ASTM A276 410	-
14	PACKING	FLEXIBLE GRAPHITE	(2)
15	PACKING	316+BRAIDED GRAPHITE	(2) REINFORCED
16	GLAND	ASTM A276 410	-
17	GLAND FLANGE	ASTM A217 WCB	-
18	PINS	AISI 1035	-
19	EYEBOLTS	ASTM A193 B7	-
20	NUTS	ASTM A194 2H	-
21	STEM NUT	ALUMINIUM BRONZE	-
22	RETAINING NUT	AISI 1035	-
23	HANDWHEEL	MALLEABLE IRON	-
24	NUTS	AISI 1035	-
25	NAMEPLATE	316SS	-
26	RIVETS	316SS	-

(1) STEM SMOOTHNESS Ra ≤ 0.80 µm
(2) STUFFING BOX SMOOTHNESS Ra ≤ 3.2 µm (SUPERIOR TO API 600)

RATING	CL 300	TEST PRESSURE	
DESIGN & MFG.	API600	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	ASME B16.10	7.75 Mpa 1125 Psi	5.68 Mpa 825 Psi
FACE TO FACE DIM.	ASME B16.5	SEAT AIR	BACKSEAT
END CONNECTION	RF 3.2~6.3Ra	0.55 Mpa 80 Psi	Mpa Psi
END DIMENSION	ASME B16.5	TEMPERATURE	
TEST & INSPECTION	API 598/ISO 5208	-29 TO 425 °C	-20 TO 797 °F
MARKING	MSS SP-25	MEDIUM	Steam, Gas
OTHER REQ.	OPTIONAL: AS2129 TABLE F-H/AS4087/AS4331.1/ISO 7005-1 PN14~40		
PORT SIZE	FULL PORT		
TRIM	TRIM #5		
NOTES	HP AIR TEST ON SEAT PERFORMED (OPTIONAL TEST UNDER API598)		
OTHER	PAINT SPEC PPWF07.002 (SILVER)		

DIMENSIONS (MM) & WEIGHT (KG)

Inch	DN	L	D	D1	D2	d	C	n-d1	W	H1	H2	Weight
4"	100	305	255	200	157	102	30.2	8-ø22	300	650	498	83

Dimensions in millimeters

Parallel Slide Expanding Discs, Full Port,
Gate Valve, Model AP-316UKS,
NPS 4" (DN100) Class 300

ORDER N°/ DWG N°	XXXXXX-99	APPROVED	B.T.
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GENERAL SERVICE APPLICATION	Carbon steel surfaces
SCOPE	Standard level protection against weathering, fresh & salt water, chemical atmosphere, petroleum products, alcohols and solvents
TEMPERATURE RESISTANCE	-46°C to 240°C
PRELIMINARY SURFACE PREPARATION	Blasting to Grade Sa 2.1/2. Cleaning with degreaser and washing with high pressure water at 100°C, and then drying in open air (over 8°C) 24 hours between coats
PROTECTION OF UNPAINTED PARTS	Protection with suitable plastic plugs and with sealing tape of: internal bore, flange sealing surface, welding ends
FINAL SURFACE PREPARATION	Final clean all surfaces free of impurities, dust etc. Machining to smoothness of ≤ 6,3µm where applicable
PAINT APPLICATION	Spraying with a gun, drying in between coats as per manufacturer's specification. Painting performed at 5 ~ 30°C at less than 85% humidity

NO. OF COATS	TYPE OF PROCESS	TYPE	FILM THICKNESS
1st & 2nd Coat Body	Anti-rust self curing Epoxy Zinc primer	Zinc-rich Resin Epoxy Polyamide	40~50 µm total
3rd Coat Body	RAL9006 (Aluminium)	Silicone Acrylic Aluminium Resin	80 µm total
TOTAL DRY FILM THICKNESS (BODY):			120~130 µm

NOTES:
 Application temperature, drying times and other physical data of painting as per manufacturer specifications.

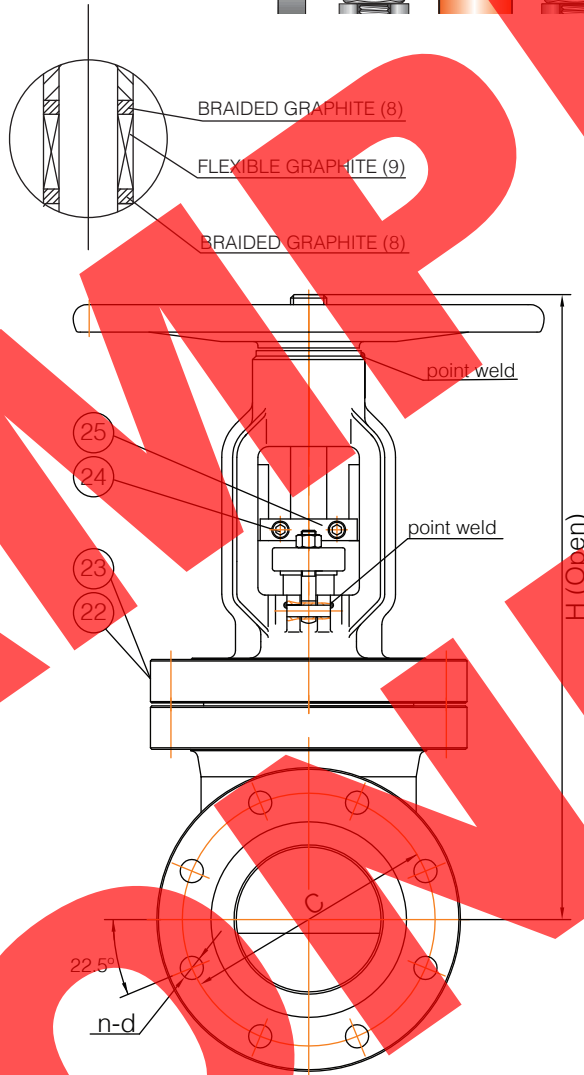
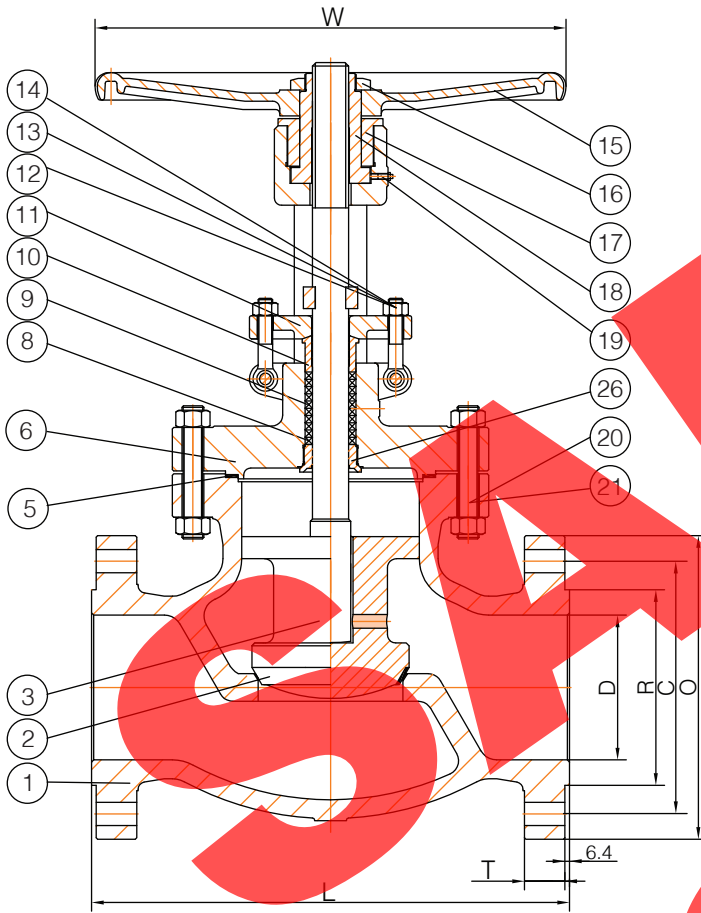
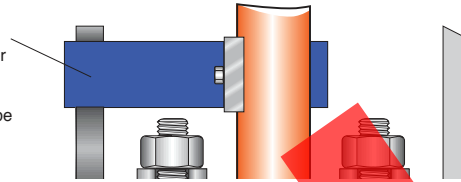
Rev.	Date	Remarks	Issued by:
2	Sept 4th 2018	Fourth issue	GP



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Torque Arm

The torque arm prevents stem movement which reduces wear on packing rings and enables better sealing as well as reducing torque. Non rotating stem, only the stem nut rotates. The arm also provides visual stem position indication and can be interfaced with position switches.



BILL OF MATERIALS

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A216 WCB+STL6	-
2	DISC	ASTM A105+13Cr	-
3	STEM	ASTM A276 410	(1)
5	GASKET (ENCAPSULATED)	SS316+GRAPHITE	SPIRAL WOUND
6	BONNET	ASTM A216 WCB	-
8	PACKING	BRAIDED GRAPHITE	(2)
9	PACKING	FLEXIBLE GRAPHITE	(2) 316 REINFORCED
10	GLAND BUSH	ASTM A276 410	-
11	GLAND FLANGE	ASTM A216 WCB	-
12	EYEBOLT	ASTM A193 B7	-
13	NUT	ASTM A194 2H	-
14	PIN	AISI 1025	-
15	HANDWHEEL	QT400-18	-
16	LOCK NUT	AISI 1035	-
17	BEARING GLAND	AISI 1035	-
18	STEM NUT	BRONZE	-
19	LUBE FITTING	BRASS+ZP	-
20	BOLT	ASTM A193 B7	-
21	NUT	ASTM A194 2H	-
22	NAMEPLATE	SS316	-
23	RIVET	BRONZE	-
24	TORQUE ARM	ALLOY STEEL	-
25	SCREW	A3	-
26	BACKSEAT	ASTM A276 410	-

(1) STEM SMOOTHNESS ≤ Ra 0.80µm per API 623/API 600
(2) STUFFING BOX SMOOTHNESS ≤ Ra 3.2µm (SUPERIOR TO API 623)

RATING	CL 600	TEST PRESSURE	
DESIGN & MFG.	ASME B16.34 & BS1873, API 623	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	ASME B16.34	15.0 Mpa / 2175 Psi	11.0 Mpa / 1600 Psi
FACE TO FACE DIM.	ASME B16.10	SEAT AIR	BACKSEAT
END CONNECTION	RFSF 3.2-6.3Ra	0.55 Mpa / 80 Psi	11.0 Mpa / 1600 Psi
END DIMENSION	ASME B16.5	B16.34 BODY TEMPERATURE	
TEST & INSPECTION	API 598/ISO 5208	-29 TO 538 °C / -20 TO 1000 °F	
MARKING & PAINT	MSS SP-25 PAINT SPEC GGCFB-3	MEDIUM	Water, Oil, Gas
OTHER REQ.	NON ROTATING RISING STEM, BODY GUIDED DISC		
PORT SIZE	FULL PORT		
TRIM	API #8		
NOTES	OPTIONAL HP API 598 SEAT TEST ALSO PERFORMED		
OTHER	INVESTMENT CAST, CORROSION ALLOWANCE B16.34 3.0MM		

DIMENSIONS (MM) & WEIGHT (KG)

Inch	DN	L	D	R	C	O	T	n-d	W	H	Weight
3"	80	356	76	127.0	168.3	210	31.8	8-22.5	350	616	68
4"	100	432	102	157.0	215.9	275	38.1	8-25.5	400	638	121

Dimensions in millimeters

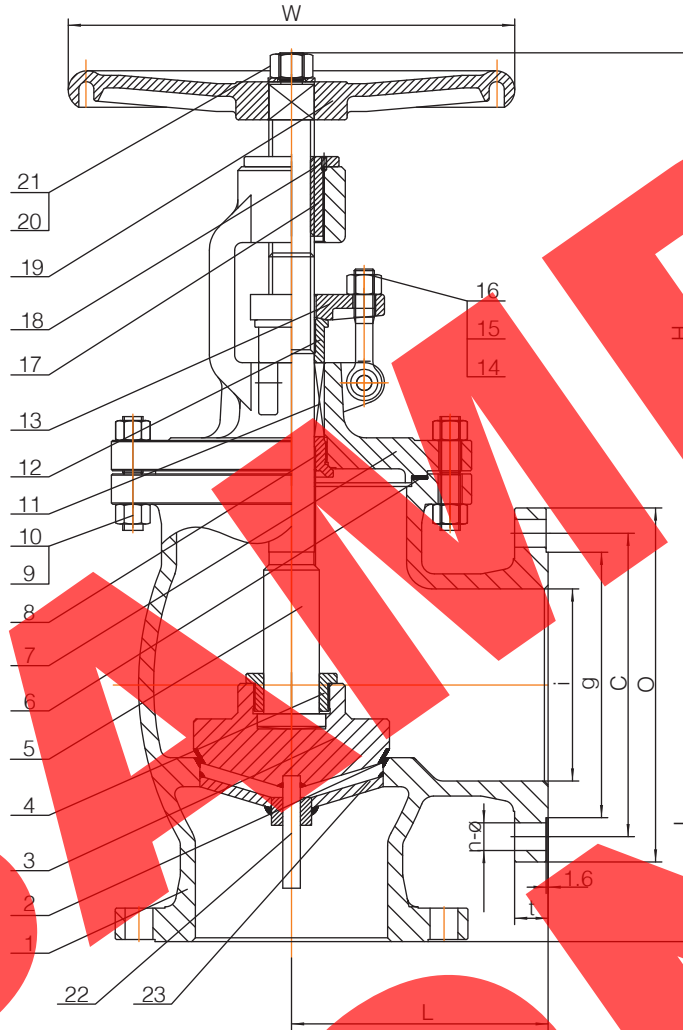
Globe Valve, SDNR (Stop Check) BBOSY, Model No. 80~100AP171LXUD, T-Pattern NPS 3"~4" (DN80~DN100) Class 600, RF, HWOP, FP, WCB, Trim API #8

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BILL OF MATERIALS

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A216 WCB	-
2	SEAT	ASTM A105+STL#6	OVERLAY
3	DISC	ASTM A105+13CR	-
4	DISC COVER	ASTM A276 410	-
5	STEM	ASTM A182 F6A	(1)
6	GASKET SPIRAL WOUND	SS316+GRAPHITE	ENCAPSULATED
7	BONNET	ASTM A216 WCB	-
8	BACK SEAT	ASTM A276 410	-
9	BOLT	ASTM A193 B7	-
10	NUT	ASTM A194 2H	-
11	PACKING	GRAPHITE	(2)
12	GLAND	ASTM A276 410	-
13	GLAND FLANGE	ASTM A216 WCB	-
14	BOLT	ASTM A193 B7	-
15	NUT	ASTM A194 2H	-
16	PIN	AISI 1035	-
17	STEM NUT	COPPER ALLOY	-
18	SET SCREW	ASTM A193 B7	PHOSPHATED
19	HANDWHEEL	MALLEABLE IRON	-
20	WASHER	A3+ZP	-
21	LOCKING NUT	ASTM A194 2H	PHOSPHATED
22	GUIDE PIN	AISI 1035	-
23	GUIDE CAGE	AISI 1035	-

(1) STEM SMOOTHNESS Ra ≤ 0.80 μm
(2) STUFFING BOX SMOOTHNESS Ra ≤ 3.2 μm (SUPERIOR TO API 623)

RATING	CL 300	TEST PRESSURE	
DESIGN & MFG.	ASME B16.34 & BS1873 (API600 WALL)	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	ASME B16.34	7.7 Mpa 1125 Psi	5.7 Mpa 825 Psi
FACE TO FACE DIM.	ASME B16.10	SEAT AIR	BACKSEAT
END CONNECTION	RFSF 3.2-6.3Ra	0.55 Mpa 80 Psi	5.7 Mpa 825 Psi
END DIMENSION	ASME B16.5	TEMPERATURE	
TEST & INSPECTION	API 598/ ISO 5208	-29 TO 425 °C	-20 TO 797 °F
MARKING & PAINT	MSS SP-25 PAINT PPWF07.002	MEDIUM	Water, Oil, Steam
OTHER REQ.	OPTIONAL LP SEAT ALSO PERFORMED		
PORT SIZE	FULL PORT		
TRIM	API #8		
NOTES	GUIDED DISC		
OTHER	INVESTMENT CAST		

DIMENSIONS (MM) & WEIGHT (KG)

Inch	DN	i	L	O	C	g	t	n-ø	H	W	Weight
3"	80	76.2	159	210	-	127	29.0	-	405	280	65

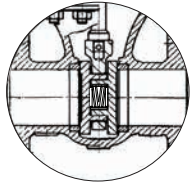
Dimensions in millimeters

Right Angle Globe Valve Model P151RXU, NPS 3" (DN80) Class 300, Undrilled Guided Disc	ORDER N°/ DWG N°	XXXXXX-99	APPROVED	B.T.
	REV.	00	CHECKED	S.Q.
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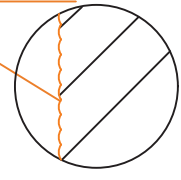


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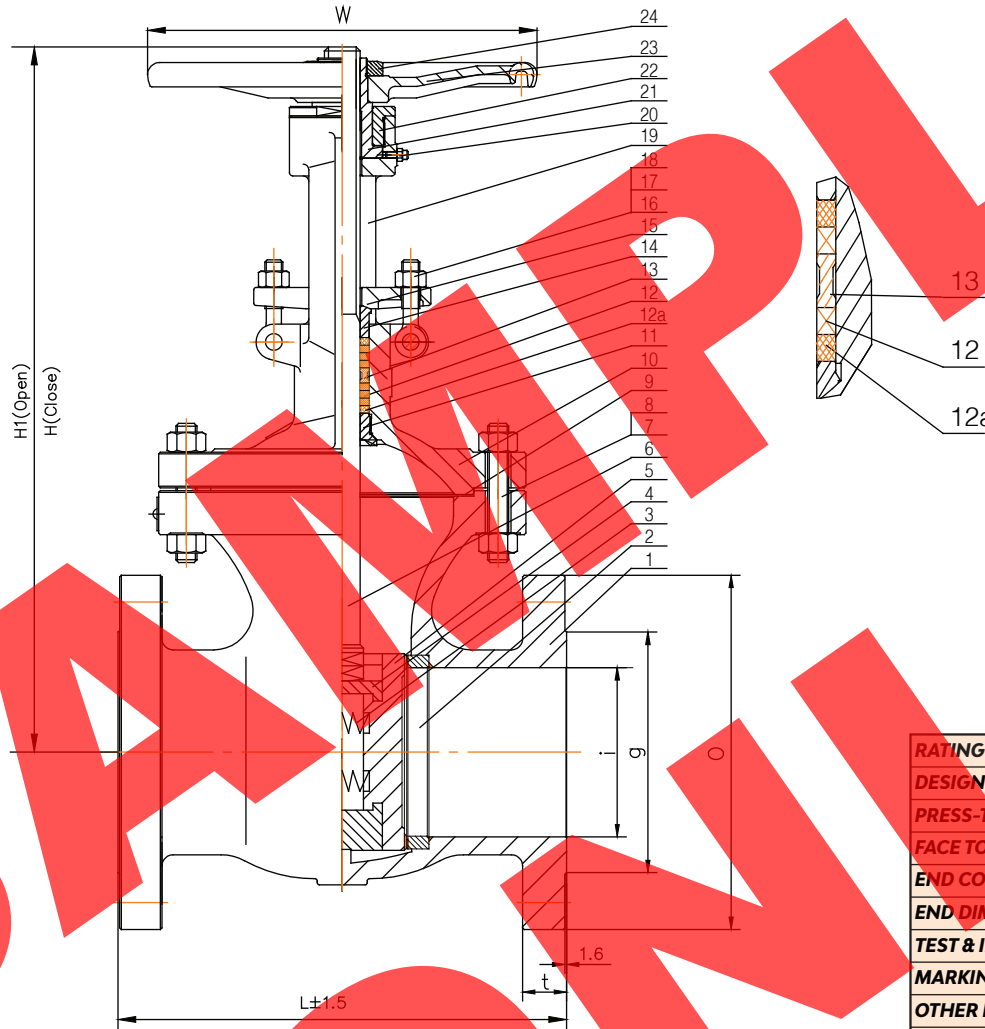
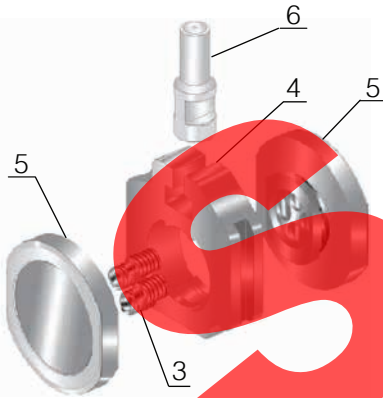
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SERRATED 3.2~6.3µm
(125~250 ARRH)



RAISED FACE



BILL OF MATERIALS

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A216 WCB	-
2	SEAT	ASTM A105+ST#6	-
3	SPRING	INCONEL X750	-
4	DISC SUPPORT GUIDE	ASTM A105	-
5	DISC	ASTM A105+ST#6	-
6	STEM	ASTM A182 F6A	-
7	BOLT	ASTM A193 B7	(1)
8	NUT	ASTM A194 2H	-
9	GASKET SPIRAL WOUND	SS316+GRAPHITE	ENCAPSULATED
10	BONNET	ASTM A216 WCB	-
11	BACK SEAT	ASTM A274 410SS	-
12	PACKING	FLEXIBLE GRAPHITE	(2)
12A	PACKING	BRAIDED GRAPHITE	(2)
13	SPACER RING	ASTM A276 410SS	-
14	GLAND	ASTM A276 410SS	-
15	YOKE FLANGE	ASTM A216 WCB	-
16	NUT	ASTM A194 2H	-
17	BOLT	ASTM A193 B7	-
18	PIN	AISI 1020	-
19	YOKE	ASTM A216 WCB	-
20	GREASE NIPPLE	SS304	-
21	STEM NUT	ASTM A439 D2	-
22	GLAND NUT	AISI 1035	-
23	HANDWHEEL	MALLEABLE IRON	-
24	LOCKING NUT	AISI 1035	PHOSPHATED

(1) STEM SMOOTHNESS Ra ≤ 0.80 µm
(2) STUFFING BOX SMOOTHNESS Ra ≤ 3.2 µm (SUPERIOR TO API 600)

RATING	CL 300	TEST PRESSURE	
DESIGN & MFG.	ASME B16.34 & API600	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	ASME B16.34	7.7 Mpa 1125 Psi	5.7 Mpa 825 Psi
FACE TO FACE DIM.	ASME B16.5	SEAT AIR	BACKSEAT
END CONNECTION	RFSF 3.2~6.3 Ra UNDRILLED	0.55 Mpa 80 Psi	5.7 Mpa 825 Psi
END DIMENSION	ASME B16.5	TEMPERATURE	
TEST & INSPECTION	API598/ISO 5208	-29 TO 538 °C	-20 TO 1000 °F
MARKING	MSS SP-25	MEDIUM	Water, Oil, Steam
OTHER REQ.	SUIT AS 2129 TABLE H/AS 4087 PN35		
PORT SIZE	FULL		
TRIM	TRIM #5		
NOTES	OPTIONAL HP & LP SEAT TEST PERFORMED (+ 20 BAR AIR ISO 5208-D)		
OTHER	PAINT SPEC PP WF07.002 (SILVER)		

DIMENSIONS (MM) & WEIGHT (KG)

Inch	DN	L	i	O	C	g	t	n-d	H	H1	W	Weight
6"	150	403.2	152	320	-	216	37	-	640	796	350	162

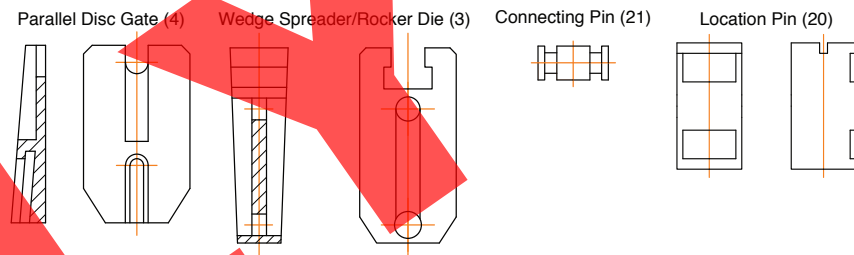
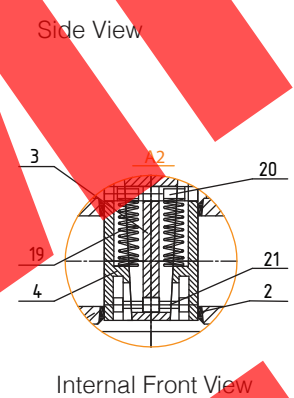
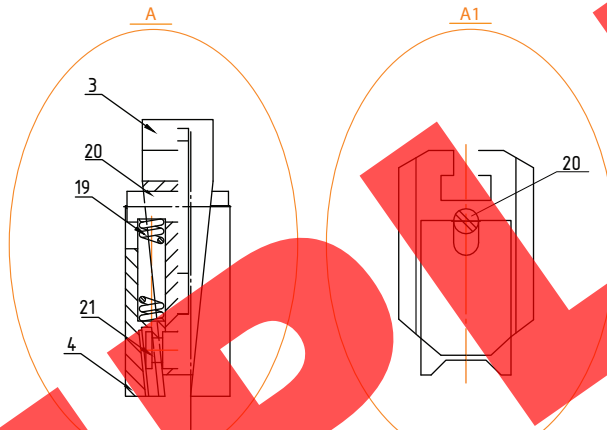
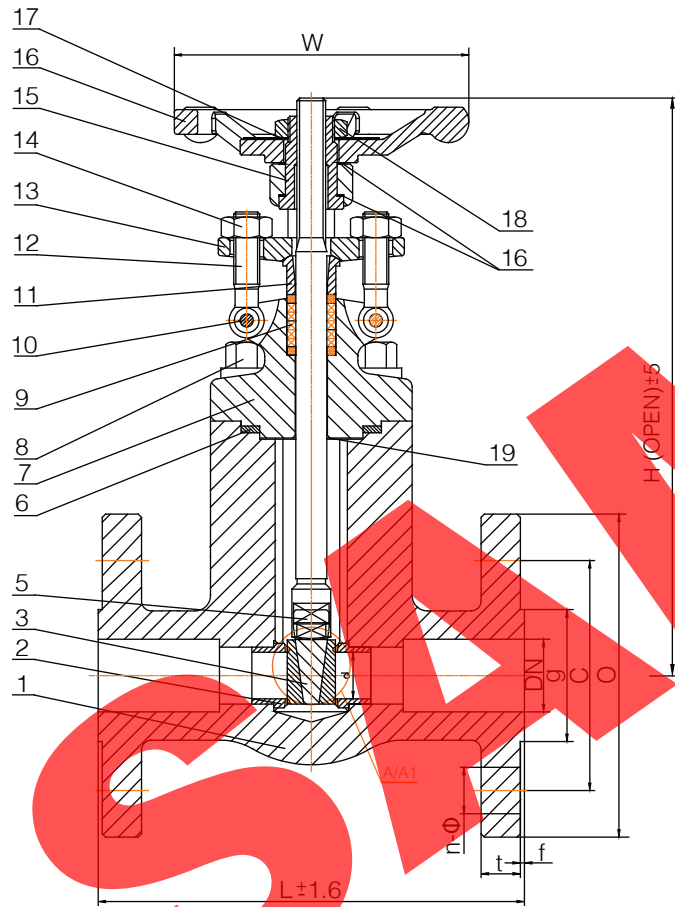
Dimensions in millimeters

Parallel Slide Gate Valve, Manually Operated Model AP-316SUS, NPS 6" (DN150) Class 300, RF, FB, BBOSY, HWOP, Undrilled	ORDER N°/ DWG N°	XXXXXX-99	APPROVED	B.T.
	REV.	00	CHECKED	S.Q.
	Australian Pipeline Valve		DRAWN	C.C.



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BILL OF MATERIALS			
NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A105N	PHOSPHATED
2	SEAT	SS410+ST#6	-
3	SPREADER	SS420	-
4	PARALLEL DISC	ASTM A182 F6+ST#6	-
5	STEM	ASTM A182 F6	-
6	GASKET SPIRAL WOUND	SS316+GRAPHITE	ENCAPSULATED
7	BONNET (INTEGRAL)	ASTM A105N	PHOSPHATED
8	BOLT	ASTM A193 B7	PHOSPHATED
9	PACKING	GRAPHITE	-
10	PIN	SS410	-
11	GLAND	SS410	-
12	GLAND EYEBOLT	ASTM A193 B7	PHOSPHATED
13	GLAND FLANGE	ASTM A105N	PHOSPHATED
14	NUT	ASTM A193 B7	PHOSPHATED
15	STEM NUT	SS410	-
16	HAND WHEEL	STEEL	-
17	NAME PLATE	SS316	-
18	NUT	ASTM A194 2H	PHOSPHATED
19	SPRINGS	INCONEL X750	-
20	LOCATION PIN	ASTM A182 F6	-
21	CONNECTION PIN	ASTM A182 F6	-
22	BACK SEAT	INTEGRAL	CONICAL

RATING	CL 300	TEST PRESSURE	
DESIGN & MFG.	API 602/ BS5157/ ASME B16.34	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	ASME B16.34	7.7 Mpa 1125 Psi	5.7 Mpa 825 Psi
FACE TO FACE DIM.	API 602/ISO 15701	SEAT AIR	BACKSEAT
END CONNECTION	RFSF 3.2-6.3Ra	0.55 Mpa 80 Psi	5.7 Mpa 825 Psi
END DIMENSION	ASME B16.5	TEMPERATURE	
TEST & INSPECTION	API 598/ISO 5208	-29 TO 425 °C	-20 TO 797 °F
MARKING & PAINT	MSS SP-25 PHOSPHATING PHO-WFGGC	MEDIUM	Water, Oil, Gas, Steam
OTHER REQ.	OPTIONAL HP AIR SEAT TEST ALSO PERFORMED		
PORT SIZE	FULL		
TRIM	API#5		
NOTES	SUIT BS/AS 2129 TABLE D J OR PN 10 ~ 40 & AS 40787 PN21/PN35		
OTHER			

DIMENSIONS (MM) & WEIGHT (KG)

Inch	DN	L	d	O	C	g	n-ø	t	f	H	W	Weight
1"	25	165	22	124	89	51	4-19	18	1.6	345	125	15.0

Dimensions in millimeters

Forged Parallel Slide Gate Valve Model AP-316SXUS-300, NPS 1" (DN25) Class 300, Undrilled Integral ends, Full Port, RF, BBOSY	ORDER N°/ DWG N°	XXXXXX-99	APPROVED	B.T.
	REV.	00	CHECKED	S.Q.
Australian Pipeline Valve			DRAWN	C.C.



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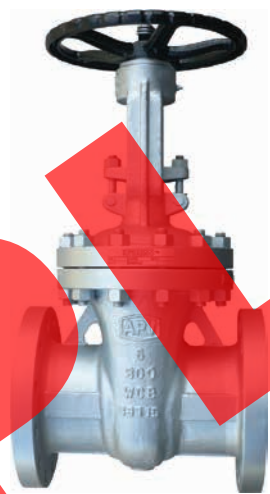
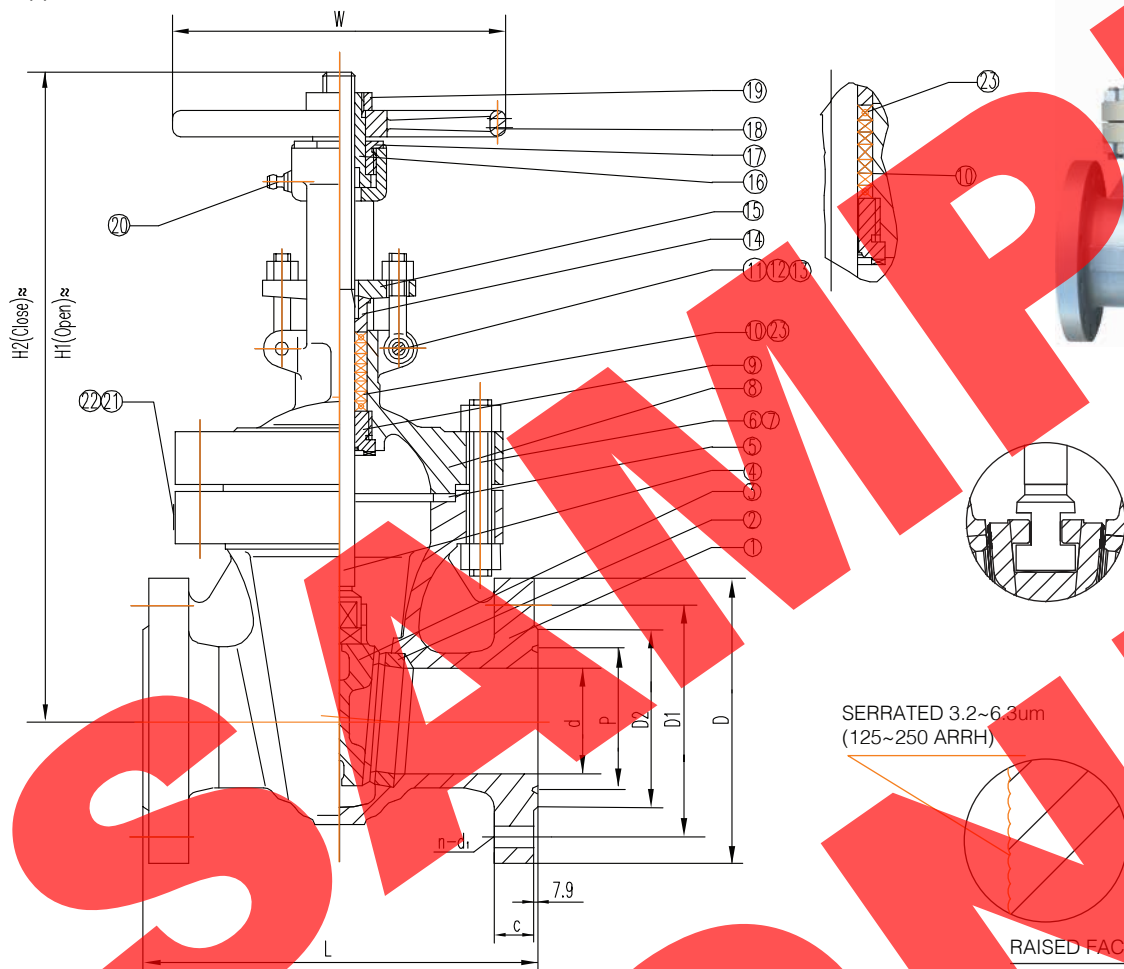


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BILL OF MATERIALS

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A216 WCB	-
2	SEAT RING	ASTM A105+ST#6	-
3	WEDGE	ASTM A216 WCB+ST#12	-
4	STEM	ASTM 17-4PH	-
5	GASKET	316 JACKETED GRAPHITE	ENCAPSULATED
6	STUD	ASTM A193 B7	-
7	NUT	ASTM A194 2H	-
8	BONNET	ASTM A216 WCB	-
9	BACK SEAT	HARDFACE STL#6	-
10	PACKING LOWER	FLEXIBLE GRAPHITE	-
11	PIN	C.S.	-
12	EYEBOLT	ASTM A193 B7	-
13	NUT	ASTM A194 2H	-
14	GLAND	ASTM A276 420	-
15	GLAND FLANGE	ASTM A216 WCB	-
16	STEM NUT	ALUMINIUM BRONZE	-
17	NUT	C.S.	-
18	HANDWHEEL	MALLEABLE IRON	-
19	RETAINING NUT	C.S.	-
20	LUBRICATOR	ASSEMBLY	-
21	NAMEPLATE	304SS	-
22	RIVET	BRONZE	-
23	PACKING UPPER	BRAIDED GRAPHITE	(1)



RATING	CL 600	TEST PRESSURE	
DESIGN & MFG.	API 600 & ASME B16.34	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	ASME B16.34	15.4 Mpa 2225 Psi	11.5 Mpa 1650 Psi
FACE TO FACE DIM.	ASME B16.10	SEAT AIR	BACKSEAT
END CONNECTION	ASME B16.5	0.55 Mpa 80 Psi	5.7 Mpa 825 Psi
END DIMENSION	RFSF 3.2-6.3Ra	TEMPERATURE	
TEST & INSPECTION	API 598	-29 TO 425 °C	-20 TO 797 °F
MARKING	NACE MR-0175	MEDIUM	Steam
OTHER REQ.	PAINT PPWF07.002 (SILVER)		
PORT SIZE	FULL PORT		
TRIM	API #5 + 17-4PH STEM		
NOTES	INVESTMENT CAST		
OTHER	FLEXIBLE WEDGE		

DIMENSIONS (MM) & WEIGHT (KG)

Inch	DN	L	D	D1	D2	d	c	n-d1	W	H2	H1	P	Weight
3"	80	359	210	168	146	79.38	32	8-ø22	300	460	550	123.7	60

Dimensions in millimeters

Gate Valve Geothermal Trim
Model AP33-XGE,
3 3/8" Bore, Class 600,
Handwheel Operated, Investment Cast

Australian Pipeline Valve

ORDER N°/ DWG N°	XXXXXX-99	APPROVED	B.T.
REV.	00	CHECKED	S.Q.
		DRAWN	C.C.

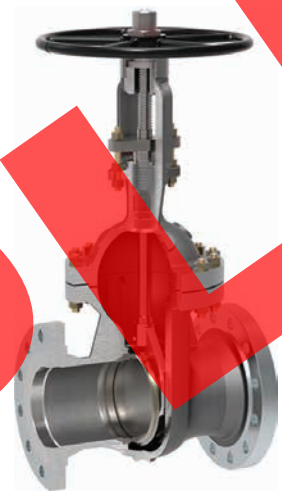
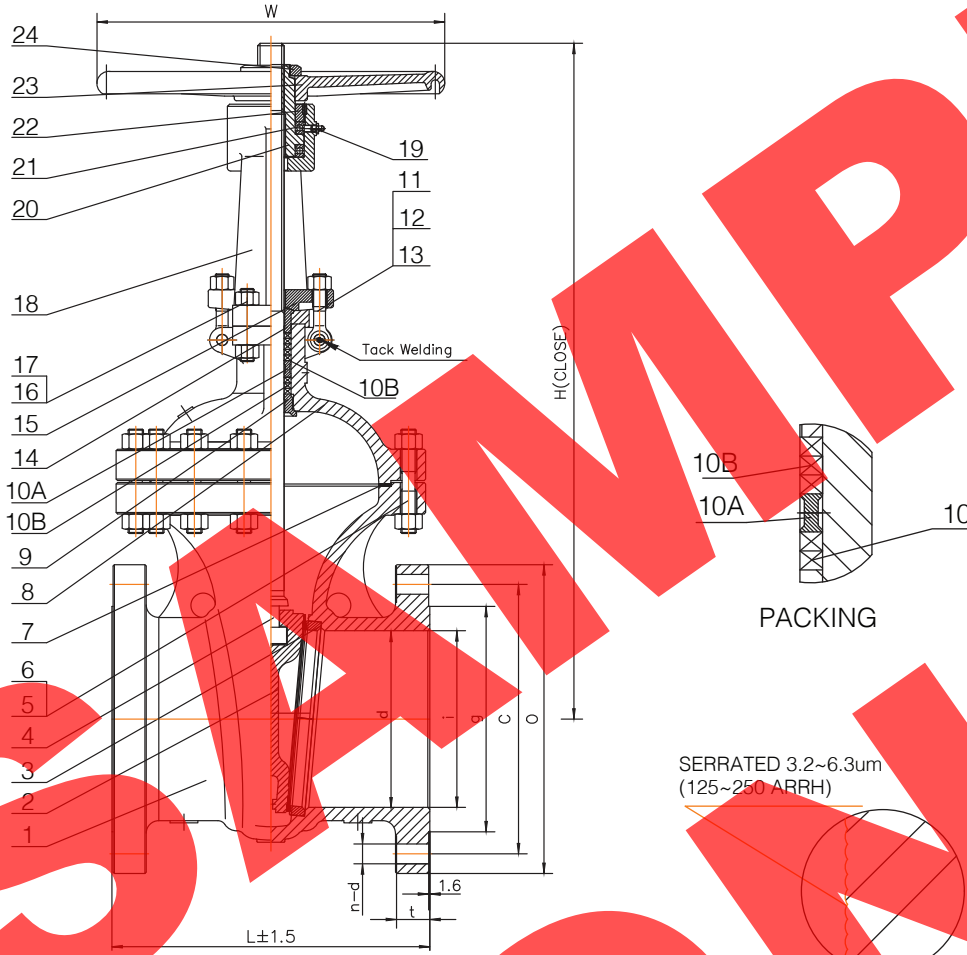


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BILL OF MATERIALS

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A216 WCB	-
2	DISC	ASTM A216 WCB+STL#12	-
3	SEAT	ASTM A105+STL#6	-
4	STEM	ASTM 17-4PH	-
5	BONNET BOLT	ASTM A193 B7	-
6	BONNET NUT	ASTM A194 2H	-
7	GASKET	SS316+GRAPHITE	SPIRAL WOUND
8	BONNET	ASTM A216 WCB	-
9	BACK SEAT	HARD FACE STL#6	-
10	PACKING LOWER	FLEXIBLE GRP	(1)
10A	SPACER RING	AISI 316SS	LANTERN RING
10B	PACKING UPPER	BRAIDED GRAPHITE	(1)
11	PIN	CARBON STEEL	-
12	GLAND BOLT	ASTM A193 B7	-
13	GLAND NUT	ASTM A194 2H	-
14	GLAND	ASTM A276 420SS	-
15	YOKE FLANGE	ASTM A216 WCB	-
19	GREASE NIPPLE	BRASS	-
20	STEM NUT	ALUMINIUM BRONZE	-
21	THRUST BEARING	ALLOY SS	-
22	GLAND NUT	AISI 1035	-
23	HANDWHEEL	MALLEABLE IRON	ZINC PLATED
24	LOCKING NUT	CS	ZINC PLATED

(1) CHESTERTON #1601 OR EQUIVALENT

RATING	CL 300	TEST PRESSURE	
DESIGN & MFG.	API 600 & ASME B16.34	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	ASME B16.34	10.3 Mpa 1494 Psi	7.5 Mpa 1088 Psi
FACE TO FACE DIM.	ASME B16.10	SEAT AIR	BACKSEAT
END CONNECTION	ASME B16.5	0.55 Mpa 80 Psi	5.7 Mpa 825 Psi
END DIMENSION	RFSF 3.2~6.3Ra	TEMPERATURE	
TEST & INSPECTION	API 598	-29 TO 425 °C	-20 TO 797 °F
MARKING	NACE MR-0175	MEDIUM	Steam
OTHER REQ.	PAINT PPWF07.002 (SILVER)		
PORT SIZE	12 3/8" BORE		
TRIM	API #5 + 17-4PH STEM		
NOTES	INVESTMENT CAST		
OTHER	FLEXIBLE WEDGE		

DIMENSIONS (MM) & WEIGHT (KG)

Inch	DN	d	L	i	O	C	g	t	n-d	H	W	Weight
12"	300	314.3	507	314.3	521	450.8	381.0	51.3	16.32	1124	500	580

Dimensions in millimeters

Gate Valve Geothermal Trim Model AP33-XGE, RF 12 3/8" Bore Class 300, Handwheel Operated, Investment Cast	ORDER N°/ DWG N°	XXXXXX-99	APPROVED	B.T.
	REV.	00	CHECKED	S.Q.
	Australian Pipeline Valve		DRAWN	C.C.



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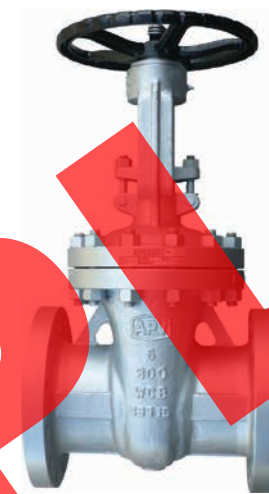
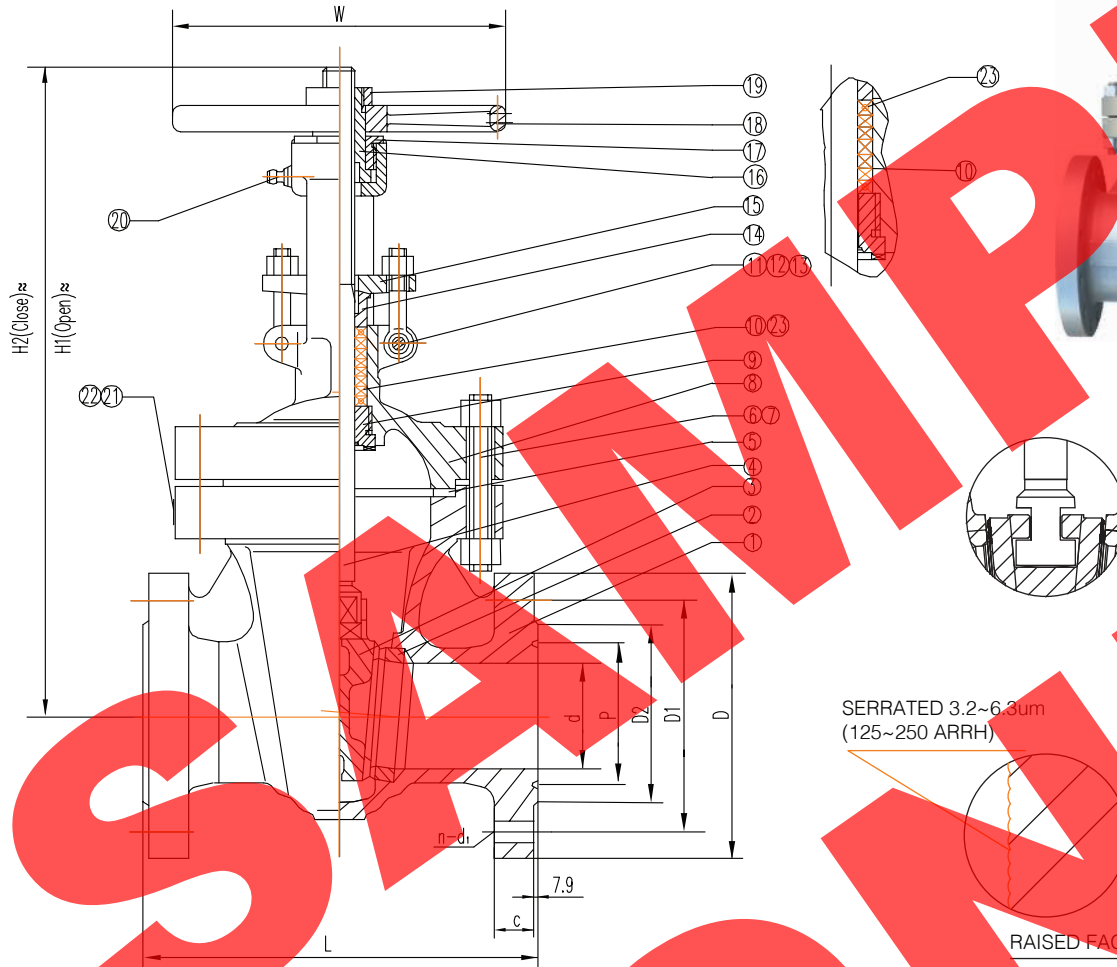


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BILL OF MATERIALS

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A216 WCB	-
2	SEAT RING	ASTM A105+ST#6	-
3	WEDGE	ASTM A216 WCB+ST#12	-
4	STEM	ASTM 17-4PH	-
5	GASKET	316 JACKETED GRAPHITE	ENCAPSULATED
6	STUD	ASTM A193 B7	-
7	NUT	ASTM A194 2H	-
8	BONNET	ASTM A216 WCB	-
9	BACK SEAT	HARDFACE STL#6	-
10	PACKING LOWER	FLEXIBLE GRAPHITE	-
11	PIN	C.S.	-
12	EYEBOLT	ASTM A193 B7	-
13	NUT	ASTM A194 2H	-
14	GLAND	ASTM A276 420	-
15	GLAND FLANGE	ASTM A216 WCB	-
16	STEM NUT	ALUMINIUM BRONZE	-
17	NUT	C.S.	-
18	HANDWHEEL	MALLEABLE IRON	-
19	RETAINING NUT	C.S.	-
20	LUBRICATOR	ASSEMBLY	-
21	NAMEPLATE	304SS	-
22	RIVET	BRONZE	-
23	PACKING UPPER	BRAIDED GRAPHITE	(1)



DIMENSIONS (MM) & WEIGHT (KG)

Inch	DN	L	D	D1	D2	d	c	n-d1	W	H2	H1	P	Weight
3"	80	359	210	168	146	79.38	32	8-ø22	300	460	550	123.7	60

RATING	CL 600	TEST PRESSURE	
DESIGN & MFG.	API 600 & ASME B16.34	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	ASME B16.34	15.4 Mpa 2225 Psi	11.5 Mpa 1650 Psi
FACE TO FACE DIM.	ASME B16.10	SEAT AIR	BACKSEAT
END CONNECTION	ASME B16.5	0.55 Mpa 80 Psi	5.7 Mpa 825 Psi
END DIMENSION	RFSF 3.2~6.3Ra	TEMPERATURE	
TEST & INSPECTION	API 598	-29 TO 425 °C	-20 TO 797 °F
MARKING	NACE MR-0175	MEDIUM	Steam
OTHER REQ.	PAINT PPWF07.002 (SILVER)		
PORT SIZE	FULL PORT		
TRIM	API #5 + 17-4PH STEM		
NOTES	INVESTMENT CAST		
OTHER	FLEXIBLE WEDGE		

Gate Valve Geothermal Trim Model AP33-XGE, 3 3/8" Bore, Class 600, Handwheel Operated, Investment Cast Australian Pipeline Valve	ORDER N°/ DWG N°	XXXXXX-99	APPROVED	B.T.
	REV.	00	CHECKED	S.Q.
			DRAWN	C.C.

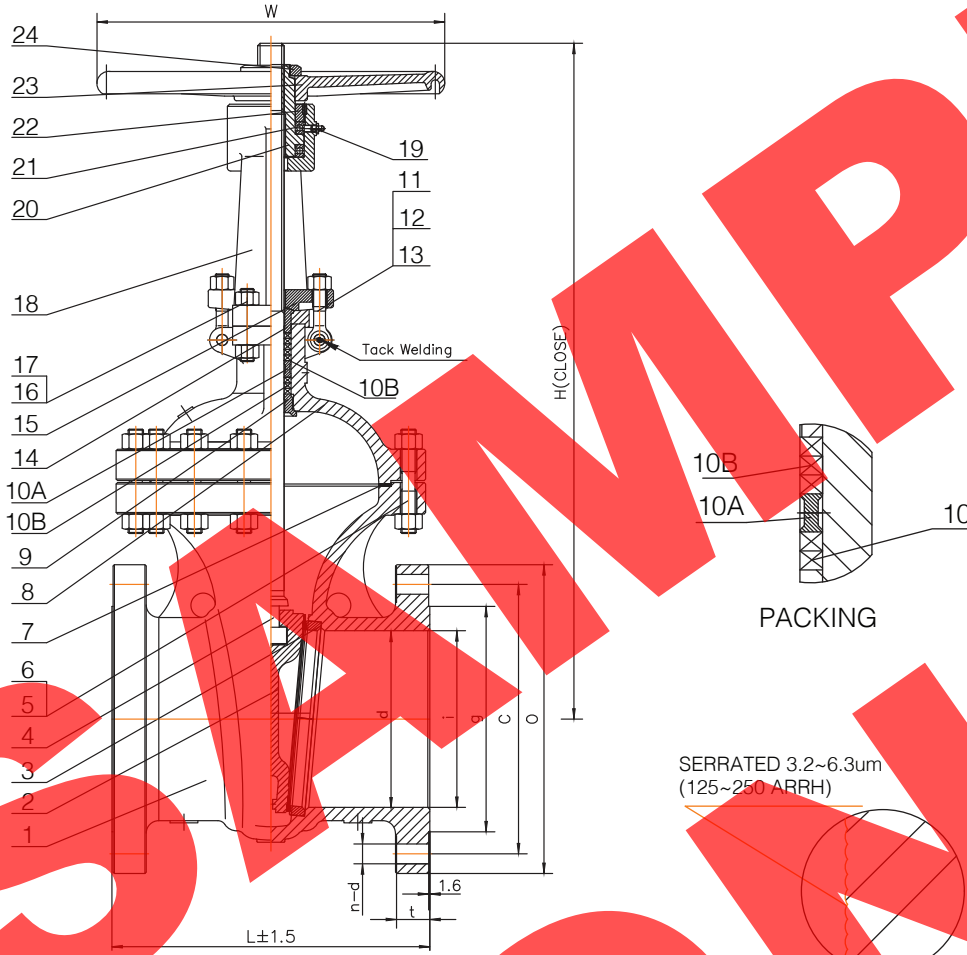


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BILL OF MATERIALS			
NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A216 WCB	-
2	DISC	ASTM A216 WCB+STL#12	-
3	SEAT	ASTM A105+STL#6	-
4	STEM	ASTM 17-4PH	-
5	BONNET BOLT	ASTM A193 B7	-
6	BONNET NUT	ASTM A194 2H	-
7	GASKET	SS316+GRAPHITE	SPIRAL WOUND
8	BONNET	ASTM A216 WCB	-
9	BACK SEAT	HARD FACE STL#6	-
10	PACKING LOWER	FLEXIBLE GRP	(1)
10A	SPACER RING	AISI 316SS	LANTERN RING
10B	PACKING UPPER	BRAIDED GRAPHITE	(1)
11	PIN	CARBON STEEL	-
12	GLAND BOLT	ASTM A193 B7	-
13	GLAND NUT	ASTM A194 2H	-
14	GLAND	ASTM A276 420SS	-
15	YOKE FLANGE	ASTM A216 WCB	-
19	GREASE NIPPLE	BRASS	-
20	STEM NUT	ALUMINIUM BRONZE	-
21	THRUST BEARING	ALLOY SS	-
22	GLAND NUT	AISI 1035	-
23	HANDWHEEL	MALLEABLE IRON	ZINC PLATED
24	LOCKING NUT	CS	ZINC PLATED

(1) CHESTERTON #1601 OR EQUIVALENT

RATING	CL 300	TEST PRESSURE	
DESIGN & MFG.	API 600 & ASME B16.34	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	ASME B16.34	10.3 Mpa 1494 Psi	7.5 Mpa 1088 Psi
FACE TO FACE DIM.	ASME B16.10	SEAT AIR	BACKSEAT
END CONNECTION	ASME B16.5	0.55 Mpa 80 Psi	5.7 Mpa 825 Psi
END DIMENSION	RFSF 3.2~6.3Ra	TEMPERATURE	
TEST & INSPECTION	API 598	-29 TO 425 °C	-20 TO 797 °F
MARKING	NACE MR-0175	MEDIUM	Steam
OTHER REQ.	PAINT PPWF07.002 (SILVER)		
PORT SIZE	12 3/8" BORE		
TRIM	API #5 + 17-4PH STEM		
NOTES	INVESTMENT CAST		
OTHER	FLEXIBLE WEDGE		

DIMENSIONS (MM) & WEIGHT (KG)

Inch	DN	d	L	i	O	C	g	t	n-d	H	W	Weight
12"	300	314.3	507	314.3	521	450.8	381.0	51.3	16.32	1124	500	580

Gate Valve Geothermal Trim Model AP33-XGE, RF 12 3/8" Bore Class 300, Handwheel Operated, Investment Cast	ORDER N°/ DWG N°	XXXXXX-99	APPROVED	B.T.
	REV.	00	CHECKED	S.Q.
Australian Pipeline Valve			DRAWN	C.C.

Dimensions in millimeters

APV DWG FRM 124