

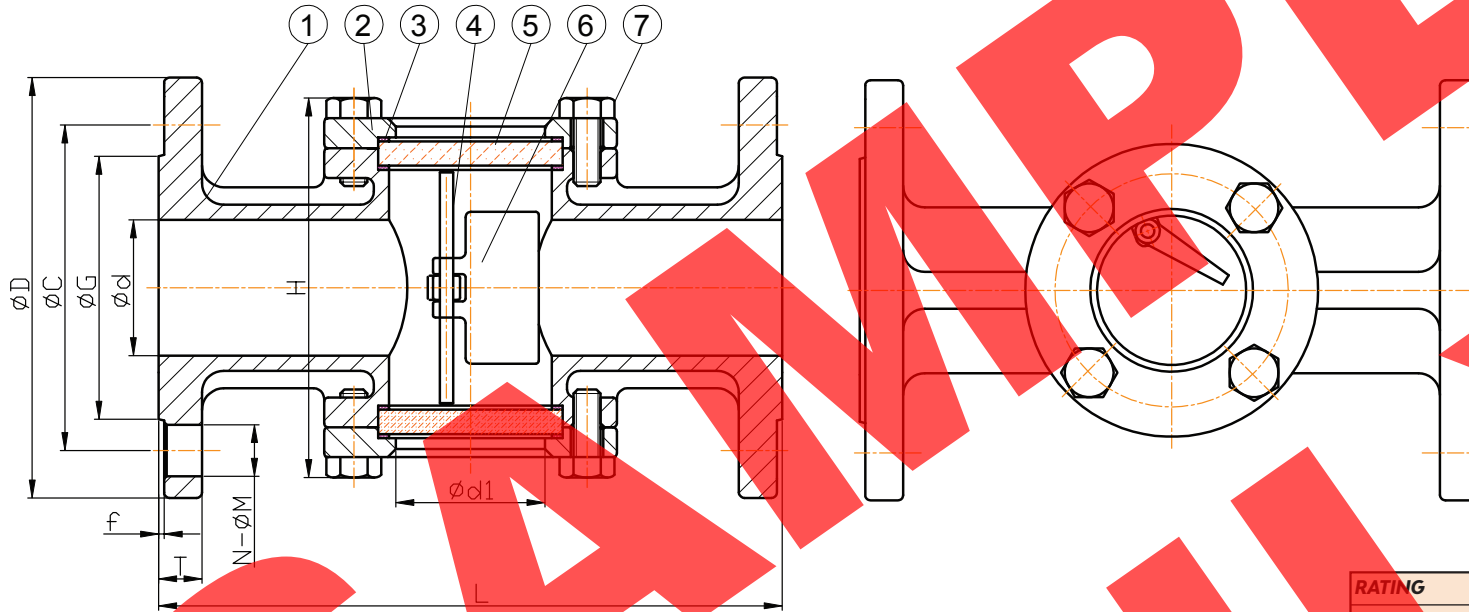


AUSTRALIAN PIPELINE VALVE®
www.australianpipelinevalve.com.au



BILL OF MATERIALS

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A216 WCB	-
2	CAP	ASTM A216 WCB	-
3	GASKET	PTFE	-
4	STEM	SUS304/SUS316	-
5	GLASS PARCEL	BOROSILICATE GLASS	-
6	INDICATOR	ASTM A351 CF8M	-
7	BOLT	CARBON STEEL/SUS304	-



RATING	CL 150	TEST PRESSURE	
DESIGN & MFG.	ASME B16.34 (WALL)	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	ASME B16.34	2.16 Mpa 313 Psi	Mpa Psi
FACE TO FACE DIM.	DIN 3202-F1	SEAT AIR	BACKSEAT
END DIMENSION	ASME B16.5	Mpa Psi	Mpa Psi
END CONNECTION	RF 3.2~6.3Ra (125~250AARH)	TEMPERATURE	
TEST & INSPECTION	API 598	MAX 200 °C MAX 392 °F	
MARKING	MSS-SP25	MEDIUM	Water, Oil, Gas
OTHER REQ.			
PORT SIZE	FULL		
TRIM	316		
NOTES	INVESTMENT CAST BODY PAINT SILVER PP WF07.002		
OTHER	DOUBLE SIDED FLOW INDICATOR		

DIMENSIONS (MM) & WEIGHT (KG)

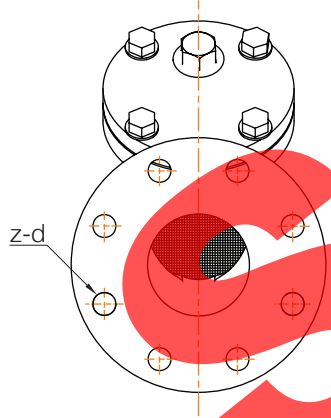
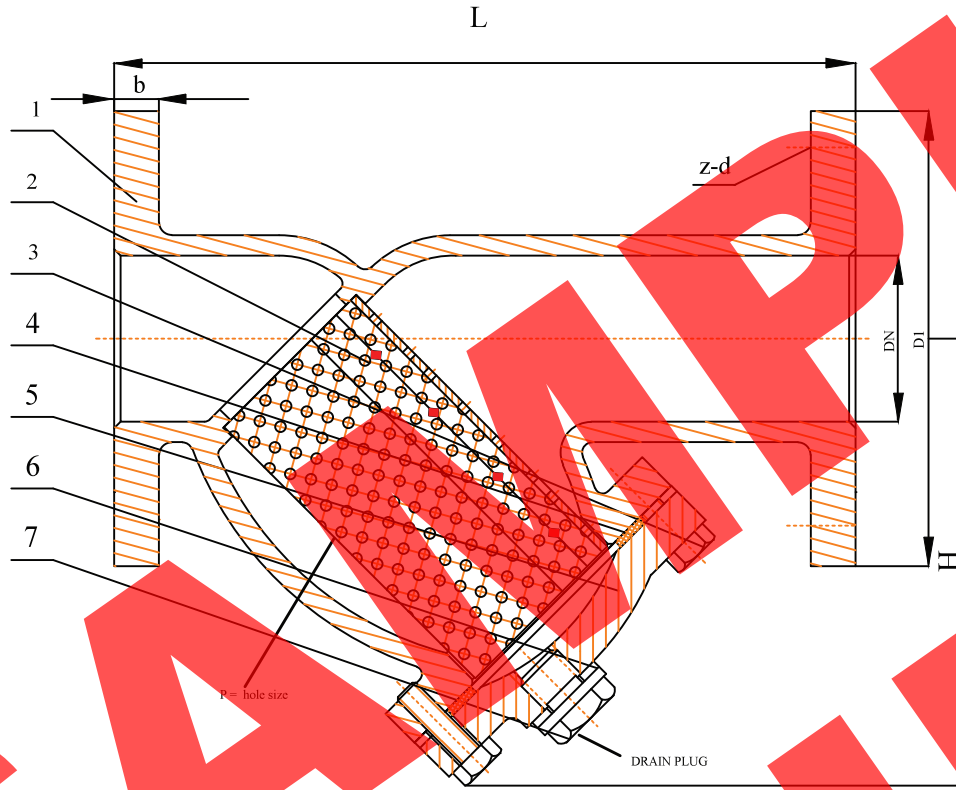
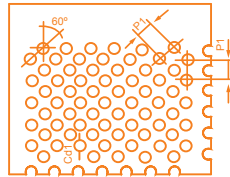
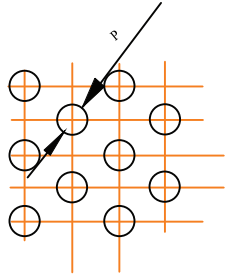
Inch	DN	d	d1	L	H	D	C	G	f	T	N-M	Weight
1/2"	15	15	35	130	115	89	60.5	35	1.6	11.1	4-16	3
3/4"	20	20	35	150	115	98	70.0	43	1.6	11.1	4-16	4
1"	25	25	35	160	115	108	79.5	51	1.6	11.1	4-16	5
1 1/4"	32	32	55	180	143	117	89.5	64	1.6	12.7	4-16	5
1 1/2"	40	40	55	200	143	127	98.5	73	1.6	14.3	4-16	8
2"	50	50	55	230	143	152	120.5	92	1.6	15.9	4-19	10
2 1/2"	65	65	85	290	185	178	139.5	105	1.6	17.5	4-19	14
3"	80	80	85	310	196	190	152.5	127	1.6	19.1	4-19	19
4"	100	100	110	350	228	229	190.5	157	1.6	23.9	8-19	25
5"	125	125	135	400	268	254	216.0	186	1.6	23.9	8-22	25
6"	150	150	160	480	310	279	241.5	216	1.6	25.4	8-22	45
8"	200	200	200	600	400	343	298.5	270	1.6	28.6	8-22	70

Dimensions in millimeters

Sight Glass, Model SLSG-150, NPS 1/2"~8" (DN15~DN200) Class 150, Flanged End	ORDER N°/ DWG N°	XXXXXX-99	APPROVED	B.T.
	REV.	00	CHECKED	S.Q.
Australian Pipeline Valve			DRAWN	C.C.



AUSTRALIAN PIPELINE VALVE®
www.australianpipelinevalve.com.au



BILL OF MATERIALS

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A216-B	GREY CAST IRON+FBE
2	SCREEN	SS304	STAINLESS STEEL
3	BOLT	ASTM A194 B7	ALLOY STEEL + ZP
4	GASKET	ASTM D2	NBR
5	COVER	ASTM A126-B	GREY CAST IRON+FBE
6	WASHER	ASTM A307	CARBON STEEL+ZP
7	PLUG	ASTM A307	CARBON STEEL



SAMPLE

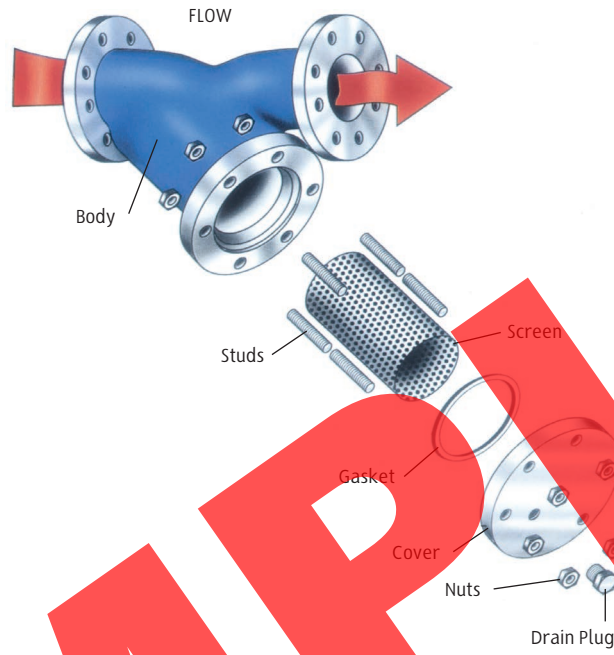
RATING	PN16 1600 kPa	TEST PRESSURE	
DESIGN & MFG.	BSEN 1074-2 EN1092-2, ASME B16.1 WALL	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	EN1092-2/AS4087/AS4331.2 PN16	2.4 Mpa 348 Psi	1.76 Mpa 255 Psi
FACE TO FACE DIM.	BSEN 558/MFG STD	SEAT AIR	BACKSEAT
END DIMENSION	TABLE E AS2129/AS4087 PN16	Mpa Psi	Mpa Psi
END CONNECTION	FF TABLE E AS2129 DRILLED	TEMPERATURE	
TEST & INSPECTION	ISO 5208 & EN 1226-1/2 PN16	-4 TO 100 °C	24.8 TO 212 °F
MARKING	MSS SP-25	MEDIUM	Water, Oil, Gas
OTHER REQ.			
PORT SIZE	FULL		
TRIM	SS		
NOTES	-		
OTHER	PAINTING: - FBE (FUSION BONDED EPOXY) FBE-CI-01		

DIMENSIONS (MM) & WEIGHT (KG)

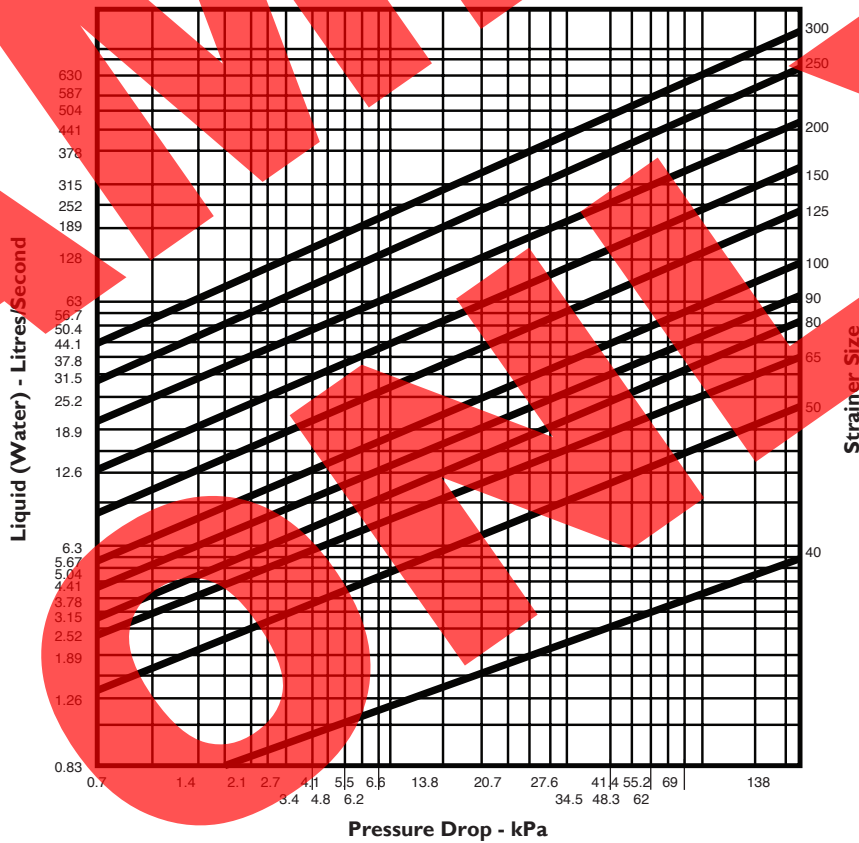
Inch	DN	D	C	L	b	H	z-d	P	P1	DRAIN	Weight
2"	50	152.4	114.3	220	19	160	4-19	2	2.0	1" BSP	19
2 1/2"	65	165.1	127.0	270	19	185	4-19	2	3.5	1" BSP	18
3"	80	184.2	146.0	290	19	200	4-19	2	3.5	1" BSP	20
4"	100	215.9	177.8	350	23	225	8-19	2	3.5	1" BSP	40
5"	125	254.0	209.6	390	23	280	8-19	2	3.5	1" BSP	60
6"	150	279.4	235.0	470	25	328	8-23	3	3.5	1" BSP	80
8"	200	336.6	292.1	543	29	425	8-23	3	4.5	1-1/2" BSP	120
10"	250	406.4	355.6	660	30	497	12-23	3	4.5	1-1/2" BSP	186
12"	300	457.2	406.4	762	32	564	12-26	3	4.5	1-1/2" BSP	274

Dimensions in millimeters

Y Strainer, Model SLCI-8111 NPS 2" ~ 12" (DN50~DN300), Table E, FF, Bolted Bonnet	ORDER N° / DWG N°	XXXXXX-99	APPROVED	B.T.
	REV.	00	CHECKED	S.Q.
Australian Pipeline Valve			DRAWN	C.C.



FLOW RATE CHART



FLOW CHARACTERISTICS

Pressure drop in this chart has been calculated using a strainer with 1.6mm hole element on clean water. When the strainer element is partially blocked the pressure drop incurred will be inversely proportional to the area remaining clean.

GENERAL SERVICE APPLICATION	Cast Iron/Ductile Iron surfaces
SCOPE	Standard level protection against weathering, brackish water, salt spray, mild acids, alkaline solutions. Resistance to solvents. Good electrical insulation.
TEMPERATURE RESISTANCE	-29°C ~ 180°C
PRELIMINARY SURFACE PREPARATION	Blasting to Grade Sa 2.1/2 then cleaning with degreaser and washing with high pressure water at 100°C, and then drying in open air for 24 hours.
PROTECTION OF UNPAINTED PARTS	Paint prior to assembly internal & external.
FINAL SURFACE PREPARATION	Machining to smoothness of $\leq 6,3\mu\text{m}$ where applicable. Prepare all surfaces to ensure proper adhesion of paint film by polishing and de-burring, removing any dust, rust, water, oil or other impurities.
PAINT APPLICATION	Preheat body prior to spraying, post heat body after spraying electrostatic spray as per manufacturer's specification. Painting performed at 5 ~ 30°C at less than 85% humidity. Allow at least 24 hours between coats for drying time.

NO. OF COATS	TYPE OF PROCESS	TYPE	FILM THICKNESS
Body	Fusion Bonded Epoxy Powder RAL 5005 Light Blue	Anti-Corrosive self curing. Impact resistance (N.cm):500 Bending Test: 2 mm	250 μm
TOTAL DRY FILM THICKNESS:			250 μm

NOTES:

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

Rev.	Date	Remarks	Issued by:
1	Nov 16th 2018	Second Issue	GP

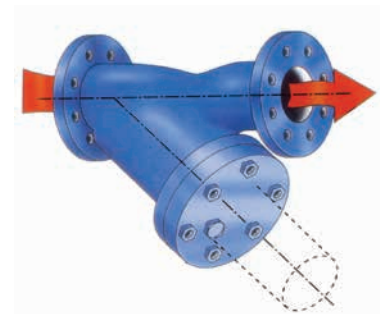
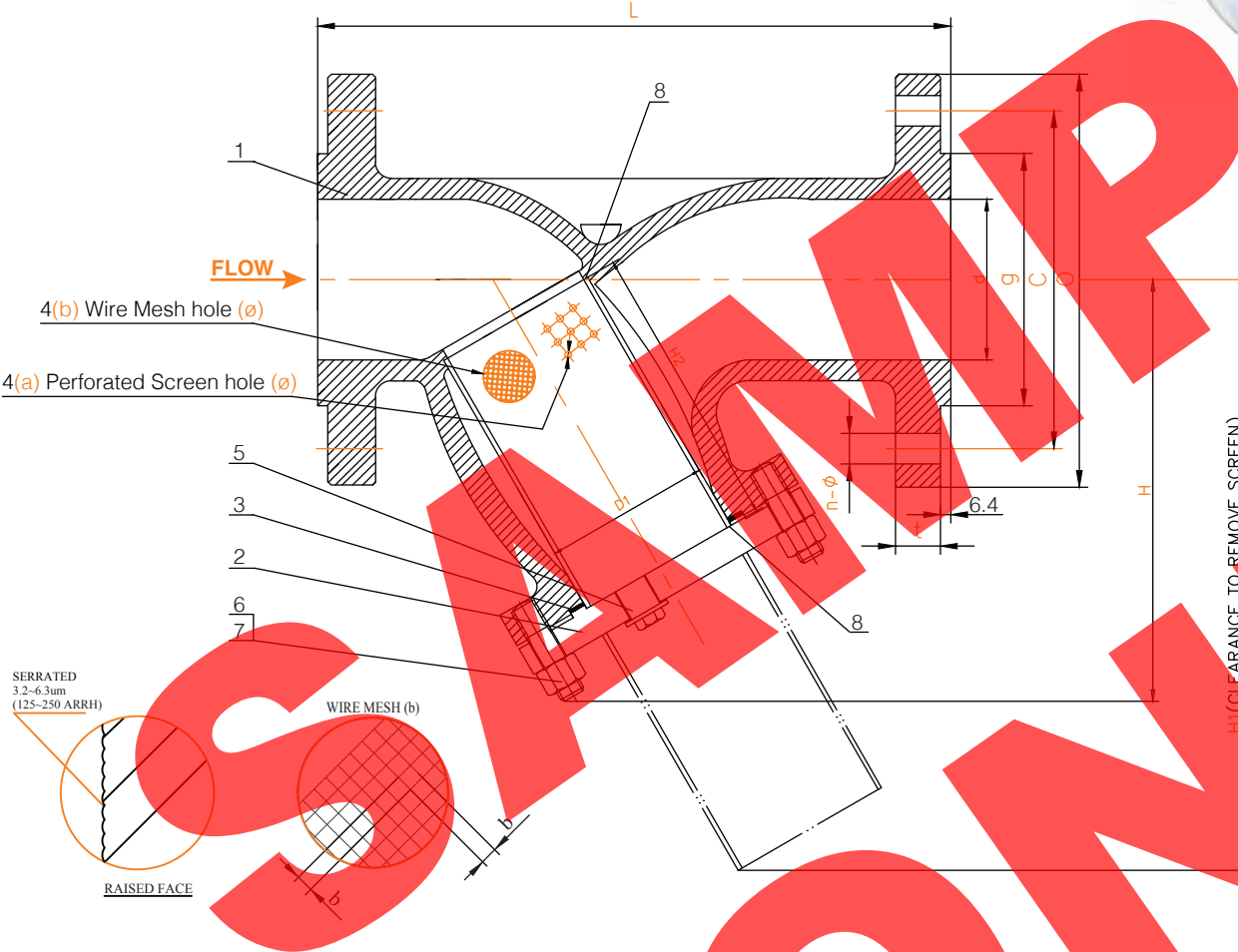
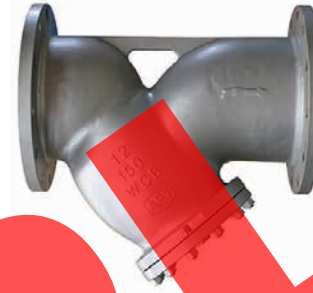


AUSTRALIAN PIPELINE VALVE®
www.australianpipelinevalve.com.au



BILL OF MATERIALS

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A216 WCB	-
2	BONNET	ASTM A105	-
3	GASKET	SS316+GRAPHITE	SPIRAL WOUND
4a	SCREEN	SS316	PUNCHED
4b	INNER MESH	SS316	WOVEN
5	DRAIN PLUG	ASTM A105	-
6	BOLT	ASTM A193 B7	-
7	NUT	ASTM A194 2H	-
8	SCREEN RETAINING RING	SS316	-



RATING	CL 150	TEST PRESSURE	
DESIGN & MFG.	ASME B16.34 (WALL)	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	ASME B16.34	3.1 Mpa 450 Psi	Mpa Psi
FACE TO FACE DIM.	ASME B16.10	SEAT AIR	BACKSEAT
END DIMENSION	ASME B16.5	Mpa Psi	Mpa Psi
END CONNECTION	RFSF 3.2~6.3Ra	TEMPERATURE	
TEST & INSPECTION	API 598/ISO 5208	-29 TO 400 °C	-20 TO 752 °F
MARKING	MSS SP-25	MEDIUM	Water, Oil, Gas
OTHER REQ.	NACE MR-01-75		
PORT SIZE	FULL		
TRIM	316SS		
NOTES	Y-TYPE		
OTHER	PAINTING - SILVER PP WF07.002		

DIMENSIONS (MM) & WEIGHT (KG)

Inch	DN	d	L	O	C	n-ø	t	g	H	H1	H2	D1	Hole (ø) a	Hole (ø) b	Drain Plug	Weight
3/4"	20	19	150	98	70.0	4-15	12	43.0	95	156	68	22	3.0	0.8	3/8"	5.0
1"	25	25	160	108	79.4	4-15	12	51.0	90	140	78	25	3.0	0.8	1/2"	4.6
1 1/2"	40	38	200	127	98.5	4-15	15	73.0	143	235	105	44	3.0	1.0	3/4"	5.6
2"	50	51	203	150	120.7	4-19	16	92.0	133	212	110	49	3.0	1.6	3/4"	8.0
3"	80	76	241	190	157.0	4-19	19	127.0	160	264	145	75	1.6	-	1"	15.0
4"	100	102	292	230	190.0	8-19	24	157.0	200	328	180	90	3.0	0.8	1"	27.0
6"	150	152	406	279	241.5	8-22	26	216.0	250	400	255	137	3.0	1.0	2"	69.0

Dimensions in millimeters

Y-Type Strainer, Model SL8111, NPS 3/4"~6" (DN20~DN150) Class 150, RF, BB	ORDER N°/ DWG N°	XXXXXX-99	APPROVED	B.T.
	REV.	00	CHECKED	S.Q.
Australian Pipeline Valve			DRAWN	C.C.

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

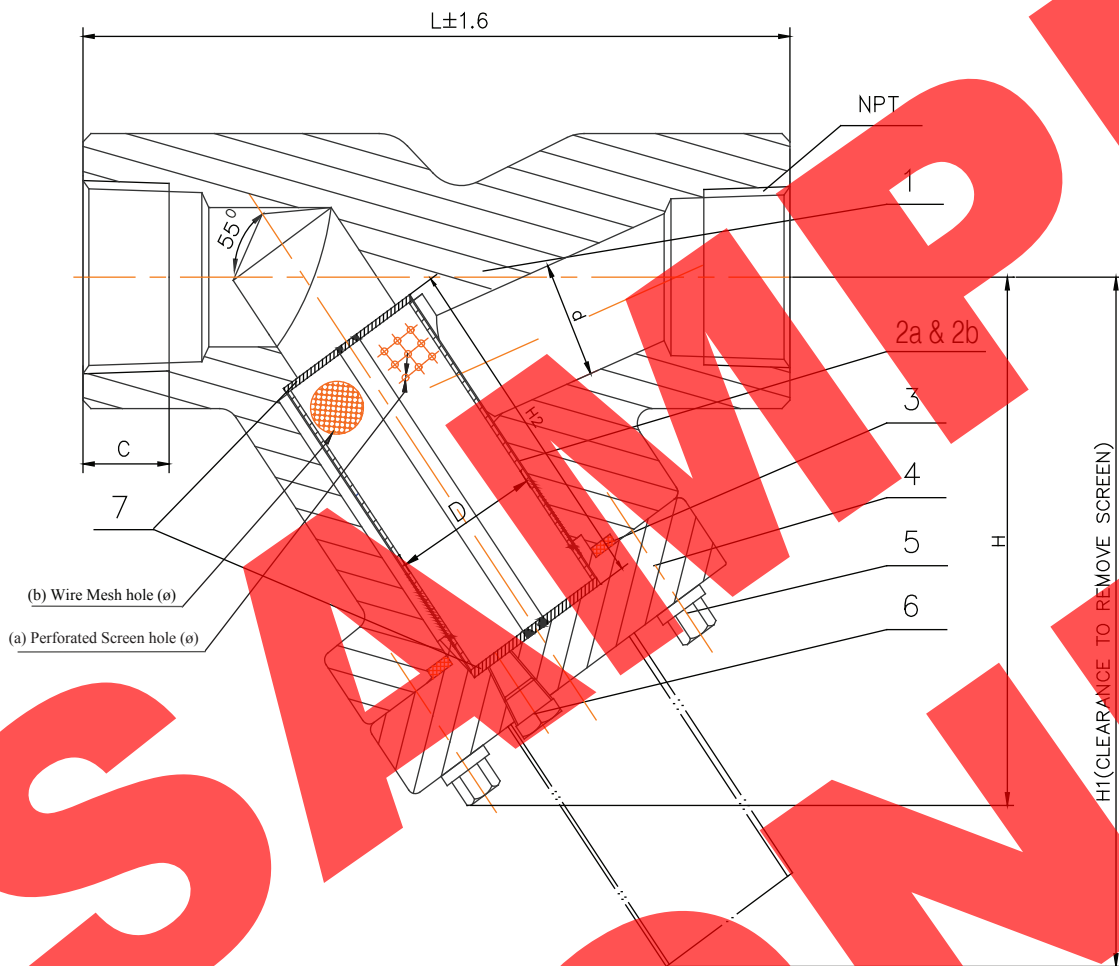
NO. OF COATS	TYPE OF PROCESS	TYPE	FILM THICKNESS
1st & 2nd Coat Body	Anti-rust self curing Epoxy Zinc primer	Zinc-rich Resin Epoxy Polyamide	40~50 µm total
3rd Coat Body	RAL9006 (Aluminium)	Silicone Acrylic Aluminium Resin	80 µm total
TOTAL DRY FILM THICKNESS (BODY):			120~130 µm

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



AUSTRALIAN PIPELINE VALVE®
www.australianpipelinevalve.com.au



BILL OF MATERIALS

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A105N	PHOSPHATED
2a	OUTER SCREEN	SS316	-
2b	INNER MESH	SS316	-
3	GASKET	SS316+GRAPHITE	SPIRAL WOUND
4	BONNET	ASTM A105N	PHOSPHATED
5	BOLT	ASTM A193 B7M	PHOSPHATED
6	DRAIN PLUG	ASTM A105	PHOSPHATED
7	RETAINER RING	SS316	-



DIMENSIONS (MM) & WEIGHT (KG)

Inch	DN	d	L	C	H	H1	H2	D	Hole (ø) a	Hole (ø) b	Drain Plug	Weight
2"	50	36	172	19.2	143	170	85	45	2.0	0.4	1"	9

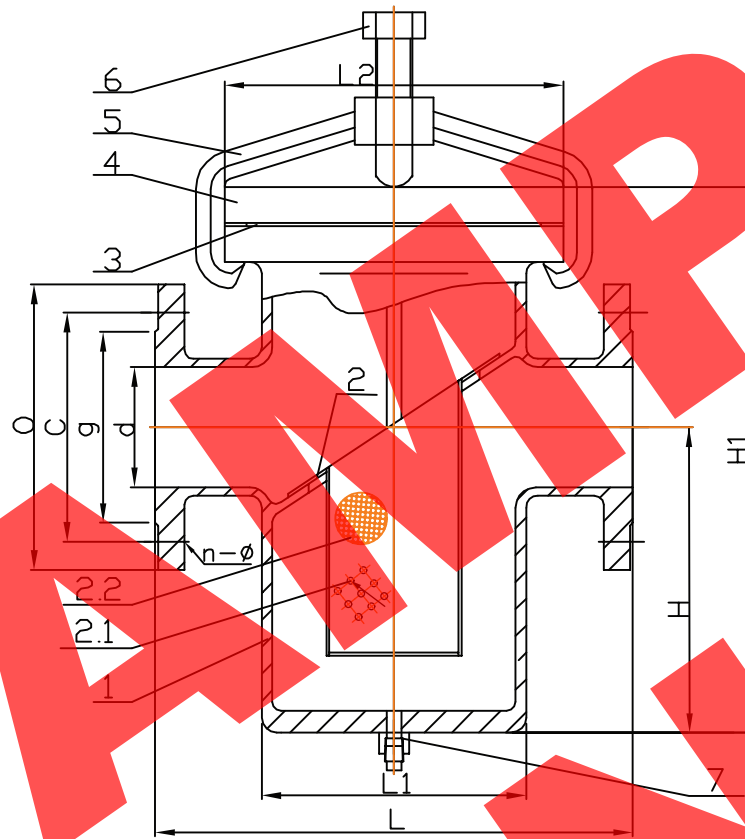
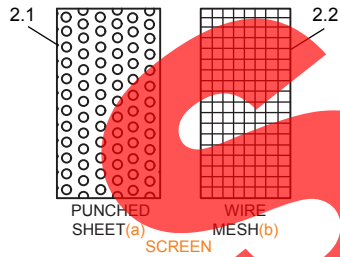
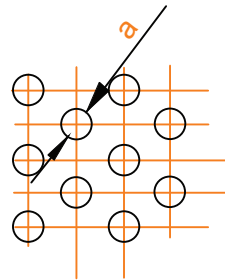
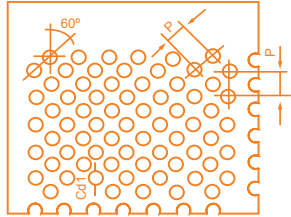
Dimensions in millimeters

RATING	CL 800	TEST PRESSURE	
DESIGN & MFG.	API 602/ ISO 15761/ ASME B16.34	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	ASME B16.34	20.5 Mpa 2975 Psi	Mpa Psi
FACE TO FACE DIM.	STD APV/ API 602/ ISO 15761	SEAT AIR	BACKSEAT
END DIMENSION	ASME B1.20.1 NPT	Mpa Psi	Mpa Psi
END CONNECTION	NPT	TEMPERATURE	
TEST & INSPECTION	API 598/ ISO 5208	-29 TO 400 °C	-20 TO 752 °F
MARKING	MSS SP-25	MEDIUM	Water, Oil, Gas
OTHER REQ.	400 MICRON MESH - 40 MESH		
PORT SIZE	REGULAR		
TRIM	316SS		
NOTES	Y-TYPE		
OTHER	NACE MR-01-75 & MR-01-03 (ISO 15156)		

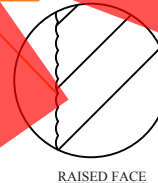
Y-Type Strainer, Model SLY8223, NPS 2" (DN50) Class 800, NPT, BB, 400 MICRON MESH	ORDER N°/ DWG N°	XXXXXX-99	APPROVED	B.T.
	REV.	00	CHECKED	S.Q.
Australian Pipeline Valve			DRAWN	C.C.



AUSTRALIAN PIPELINE VALVE®
www.australianpipelinevalve.com.au



SERRATED
3.2-6.3um
(125-250 ARRH)

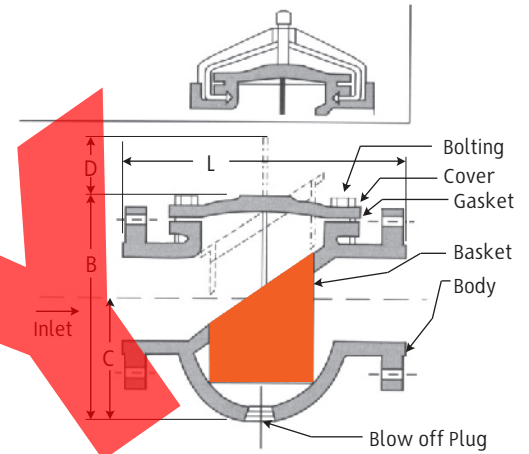


BILL OF MATERIALS

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A216 WCB	-
2	BASKET RETAINER	SS316	-
2.1	SCREEN (OUTER)	SS316	PUNCHED
2.2	SCREEN (INNER)	SS316	WIRE
3	GASKET	NBR	-
4	COVER	ASTM A216 WCB	-
5	CLAMP	ASTM A105	-
6	BOLT	ASTM A193 B7	-
7	DRAIN PLUG	ASTM A105	-



(250NB SIZE SHOWN)



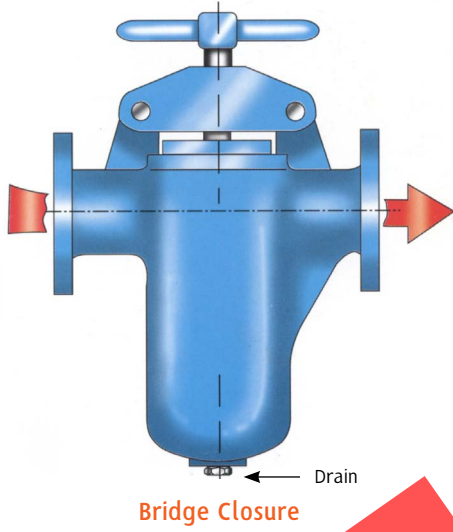
RATING	CL 150	TEST PRESSURE	
DESIGN & MFG.	ASME B16.34 (WALL)	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	ASME B16.34	3.0 Mpa	4.35 Psi
FACE TO FACE DIM.	MANUFACTURERS	SEAT AIR	BACKSEAT
END DIMENSION	ANSI B16.5	Mpa	Psi
END CONNECTION	RF	TEMPERATURE	
TEST & INSPECTION	API 598	ASME B16.34	ASME B16.34
MARKING	MSS-SP25	MEDIUM	Water, Oil, Gas
OTHER REQ.			
PORT SIZE	FULL		
TRIM			
NOTES	INTEGRAL BODY FLANGES		
OTHER	PAINTING - SILVER PP WF07.002		

DIMENSIONS (MM) & WEIGHT (KG)

Inch	DN	d	L	O	C	n-ø	t	g	L1	H	Hole (ø) a	Hole (ø) b	PCD P	Drain Plug	Weight
3"	80	76	318	190	152.5	4-19	19	127	176	190	2.0	0.8	3.5	2"	27

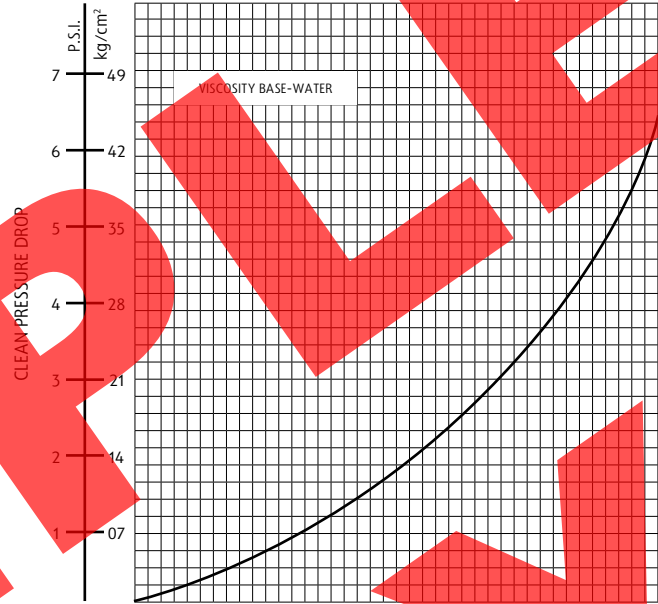
Dimensions in millimeters

Quick Release Basket Strainer, Model FVH-SF-QR-1, NPS 3" (DN80) Class 150, RF, QR Australian Pipeline Valve	ORDER N°/ DWG N°	XXXXXX-99	APPROVED	B.T.
	REV.	00	CHECKED	S.Q.
			DRAWN	C.C.



FLOW CHART

Simplex Strainers 25~300NB (1" to 12")
 Pressure drop strainers with 3/32" or 1/8" perforated baskets

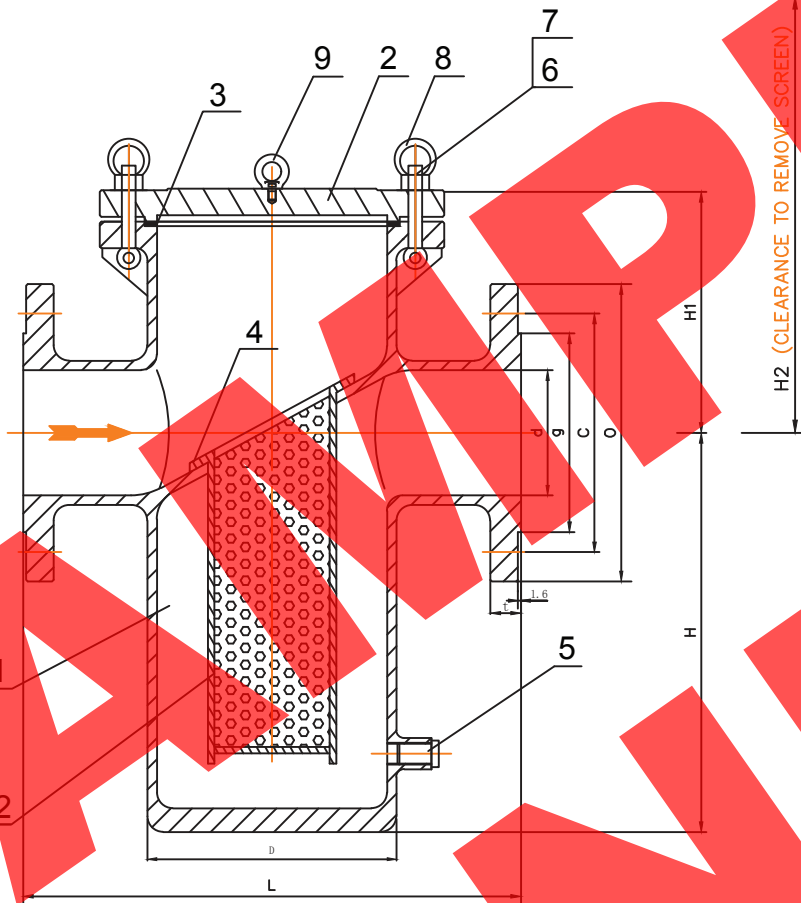
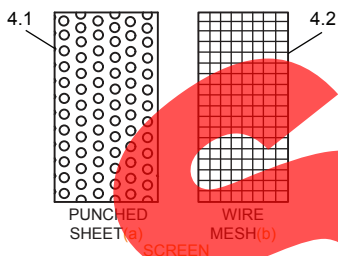
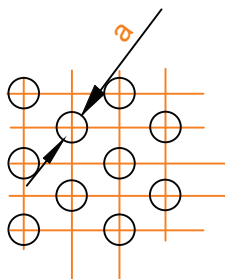
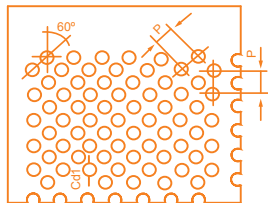


STRAINER SIZE	FLOW RATE							
	480	960	1440	1920	2400	2880	3360	
12" USGPM	480	960	1440	1920	2400	2880	3360	
10" USGPM	240	480	720	980	1200	1440	1680	
8" USGPM	120	240	360	480	600	720	840	960
6" USGPM	60	120	180	240	300	360	420	480
4" USGPM	30	60	90	120	150	180	210	240
3" USGPM	12	24	36	48	60	72	84	96
2" USGPM	12	24	36	48	60	72	84	96
1-1/2" USGPM	12	24	36	48	60	72	84	96
1" USGPM	18	36	54	72	90	108	120	120

SAMPLE ONLY

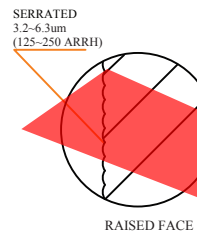


AUSTRALIAN PIPELINE VALVE®
www.australianpipelinevalve.com.au



BILL OF MATERIALS

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A216 WCB	-
2	BONNET	ASTM A216 WCB	-
3	GASKET	NBR	-
4	BASKET RETAINER	SS316	-
4.1	SCREEN (OUTER)	SS316	PUNCHED
4.2	SCREEN (INNER)	SS316	WIRE
5	DRAIN PLUG	ASTM A105	-
6	BOLT (6 PIECES)	ASTM A193 B7	SWING OUT
7	NUT	ASTM A194 2H	-
8	EYE BOLT	AISI 1020	-
9	EYE BOLT	AISI 1020	-



RATING	CL 150	TEST PRESSURE	
DESIGN & MFG.	ASME B16.34 (WALL)	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	ASME B16.34	3.1 Mpa 450 Psi	Mpa Psi
FACE TO FACE DIM.	MANUFACTURERS	SEAT AIR	BACKSEAT
END DIMENSION	ANSI B16.5	Mpa Psi	Mpa Psi
END CONNECTION	RFSF	TEMPERATURE	
TEST & INSPECTION	API598/ISO 5208	ASME B16.34 _{rc}	ASME B16.34 _{rf}
MARKING	MSS-SP25	MEDIUM	Water, Oil, Gas
OTHER REQ.			
PORT SIZE	FULL		
TRIM			
NOTES	INTEGRAL BODY		
OTHER	PAINING - SILVER PP WF07.002		

DIMENSIONS (MM) & WEIGHT (KG)

Inch	DN	d	L	O	C	n-ø	t	g	H	H1	H2	Hole (ø) a	Hole (ø) b	P	Drain Plug	Weight
4"	100	102	430	230	190.5	8-19	22.3	157.2	300	180	600	3.0	1.0	3.5	1/2" BSP	54
6"	150	152	500	280	241.3	8-23	23.9	215.9	425	220	800	3.0	2.0	3.5	1" BSP	74

Dimensions in millimeters

Simplex Quick Release 'Swing Out Bolts'
Basket Strainer, Model FV41-SF-QR,
NPS DN100~DN150 (4"~6") Class 150,
RF, (Integral Body) Swing Out Bolts

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

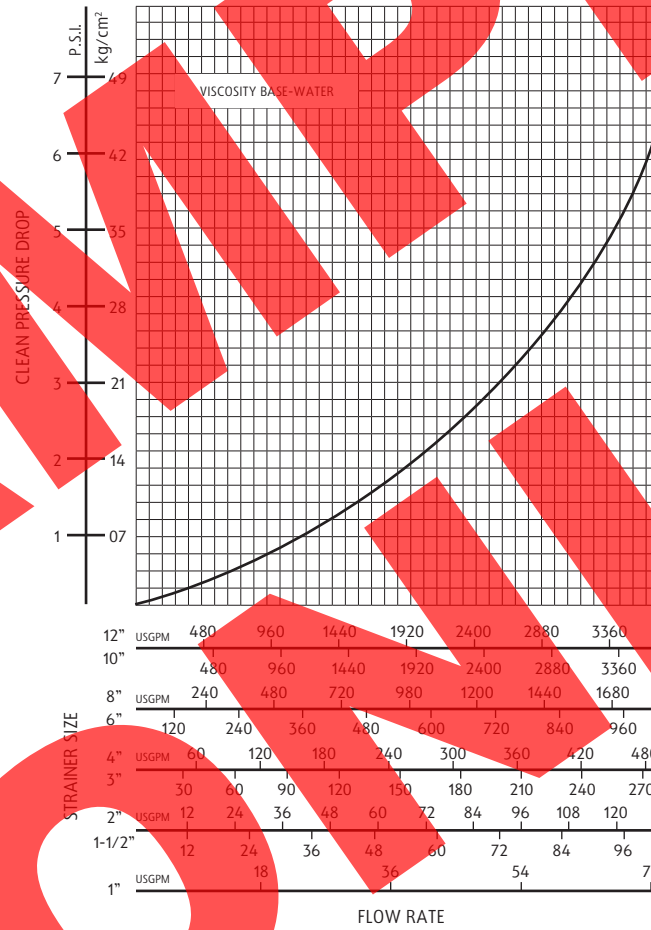


**AUSTRALIAN
PIPELINE VALVE®**
www.australianpipelinevalve.com.au



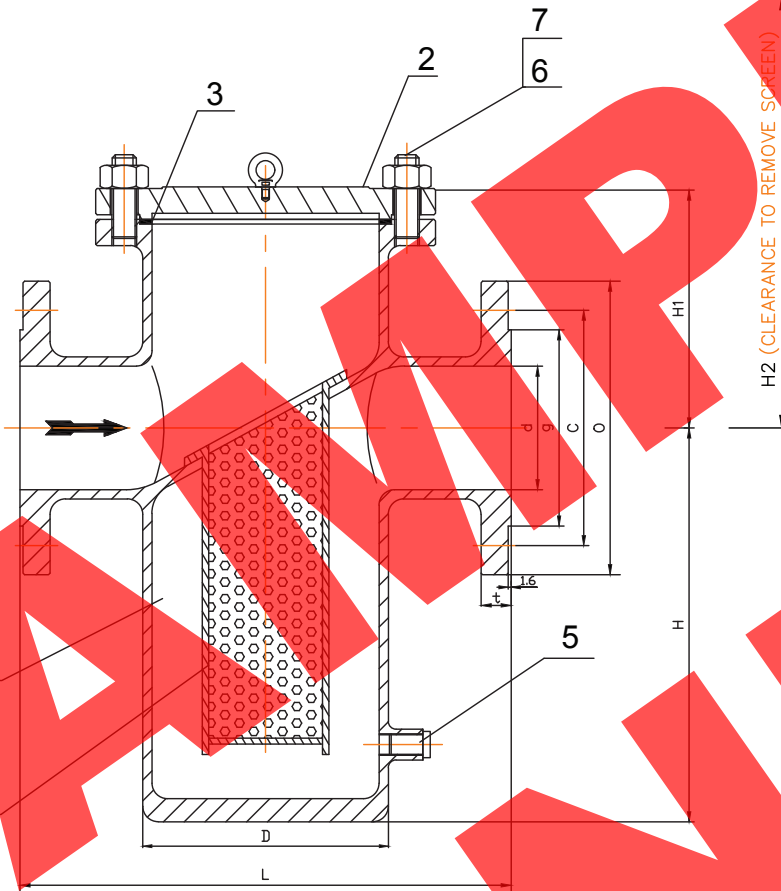
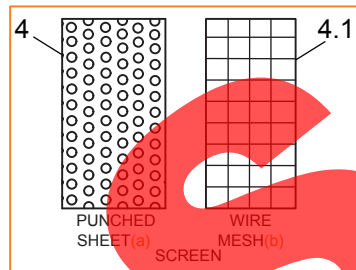
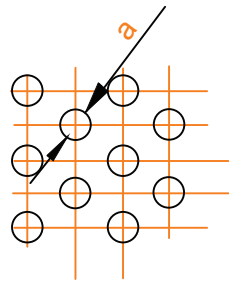
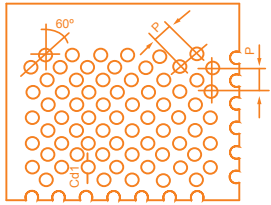
FLOW CHART

Simplex Strainers 25~300NB (1" to 12")
Pressure drop strainers with 3/32" or 1/8" perforated baskets



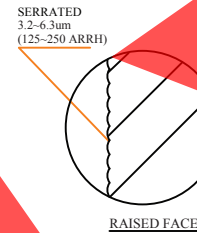
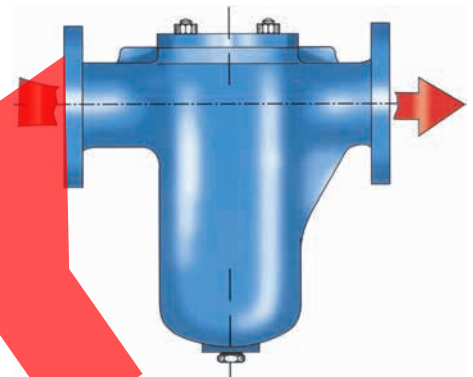


AUSTRALIAN PIPELINE VALVE®
www.australianpipelinevalve.com.au



BILL OF MATERIALS

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A216 WCB	-
2	BONNET	ASTM A105N	-
3	GASKET	PTFE	-
4	SCREEN (OUTER)	AISI SS316	PUNCHED
4.1	SCREEN (INNER)	SS316	WIRE
5	DRAIN PLUG	ASTM A105	-
6	BOLT	ASTM A193 B7	-
7	NUT	ASTM A194 2H	-



RATING	CL 150	TEST PRESSURE	
DESIGN & MFG.	ASME B16.34 (WALL)	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	ASME B16.34	3.1 Mpa 450 Psi	Mpa Psi
FACE TO FACE DIM.	MANUFACTURERS	SEAT AIR	BACKSEAT
END DIMENSION	ANSI B16.5	Mpa Psi	Mpa Psi
END TYPE	RF	TEMPERATURE	
TEST & INSPECTION	API598	ASME B16.34 _{rc}	ASME B16.34 _{rf}
MARKING	MSS-SP25	MEDIUM	Water, Oil, Gas
OTHER REQ.			
PORT SIZE	FULL		
TRIM			
NOTES	INTEGRAL BODY		
OTHER	PAINTING - SILVER PP WF07.002		

DIMENSIONS (MM) & WEIGHT (KG)

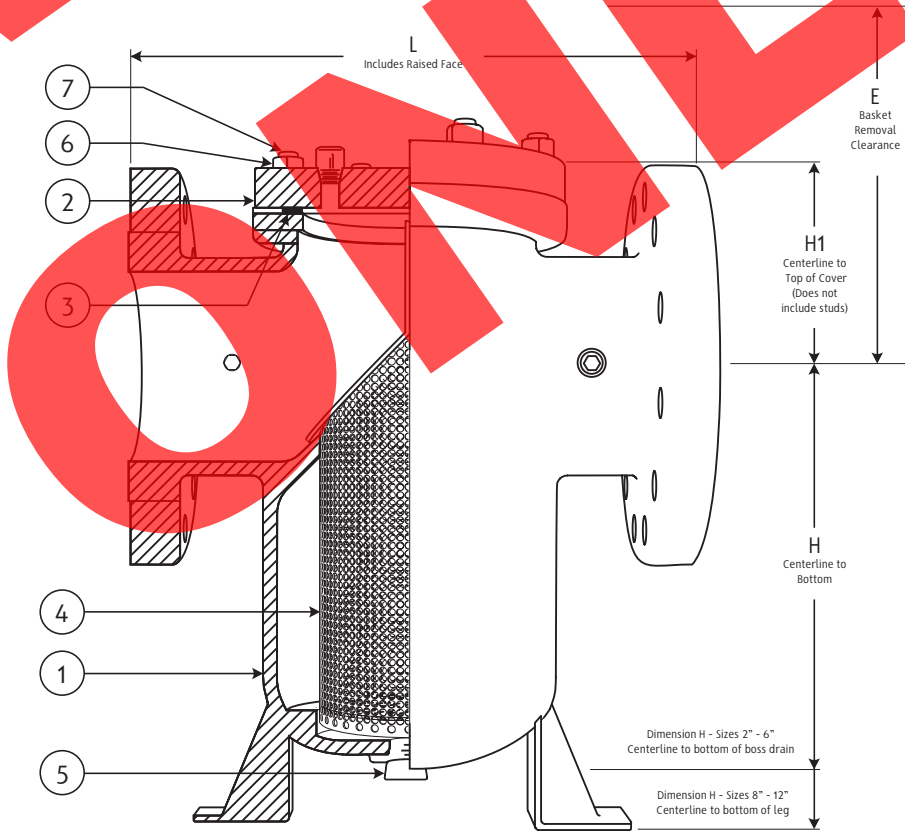
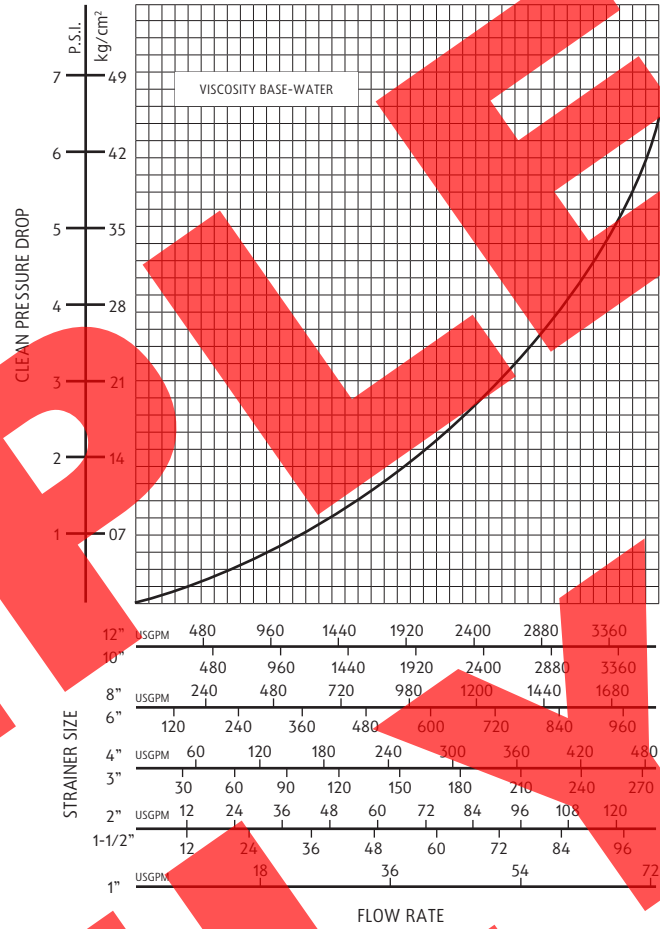
Inch	DN	d	L	O	C	n-ø	t	g	H	H1	H2	D	Hole (ø) a	Hole (ø) b	P	Drain Plug	Weight
3"	80	76	318	190	152.4	4-19	17.5	127	190	180	450	-	3.0	1.5	3.5	1" NPT	27
4"	100	102	430	230	190.5	8-19	22.3	157.2	300	180	600	-	3.0	1.5	3.5	1" BSP	54
6"	150	152	500	280	241.3	8-22	23.9	215.9	425	220	800	-	3.0	2.0	3.5	1" NPT	74

Dimensions in millimeters

Simplex Basket Strainer, Model WFL-FV-41-SF, NPS 3"~6" (DN80~DN150) Class 150, BB, RF, (Integral Body)	ORDER N°/ DWG N°	XXXXXX-99	APPROVED	B.T.
	REV.	00	CHECKED	S.Q.
Australian Pipeline Valve			DRAWN	C.C.

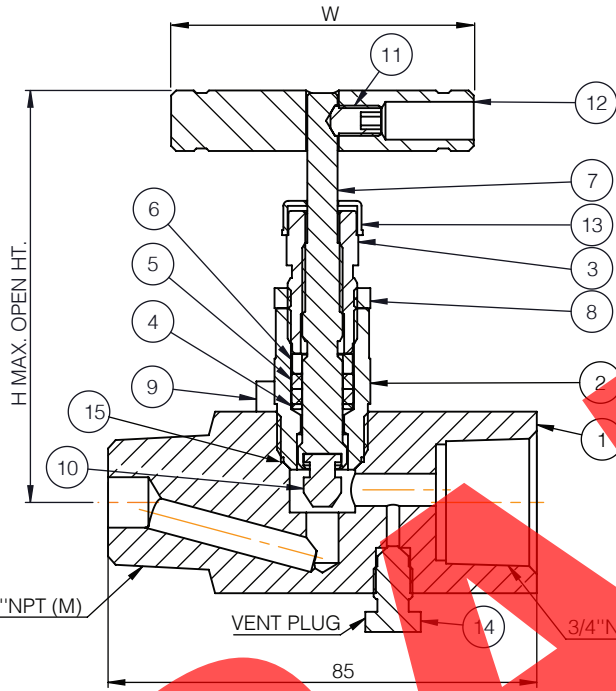
FLOW CHART

Simplex Strainers 25~300NB (1" to 12")
 Pressure drop strainers with 3/32" or 1/8" perforated baskets

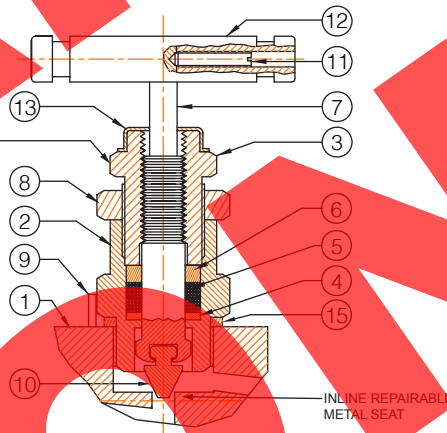
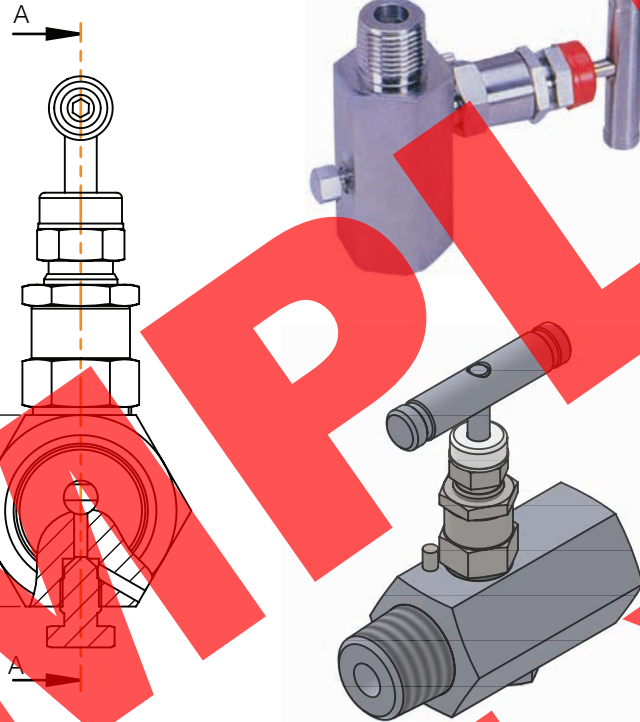
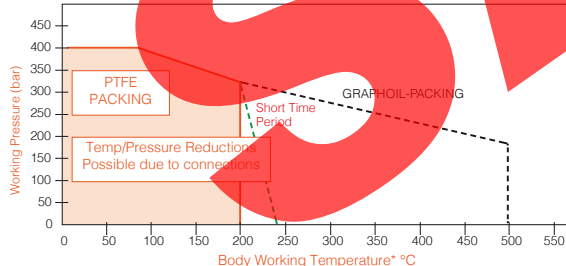




AUSTRALIAN PIPELINE VALVE®
www.australianpipelinevalve.com.au



SECTION A-A



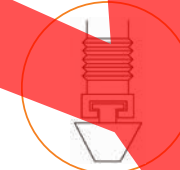
BONNET ASSEMBLY

SAFETY UNION BONNET CONSTRUCTION PREVENTS ACCIDENTAL VALVE DISASSEMBLY. ADJUSTABLE PACKING BELOW THREADS. BACK SEATED STEM.

BILL OF MATERIALS

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A479 316	-
2	GLAND BODY	ASTM A479 316	-
3	GLAND RETAINER	ASTM A479 316	(1)
4	PACKING SEAL	DELTRIN	-
5	PACKING	TEFLON	-
6	PACKING WASHER	ASTM A479 316	-
7	SPINDLE	ASTM A479 316	(2)
8	LOCK NUT	ASTM A479 316	(1)
9	DOWEL PIN	AISI 304SS	-
10	V-TIP (NON ROTATING)	17-4 PH	-
11	GRUB SCREW	AISI 304SS	-
12	HANDLE	ASTM A479 316	-
13	DUST CAP	PLASTIC	-
14	VENT PLUG	ASTM A479 316	-
15	SEAL RING	ASTM A276 316	-

(1) MOLLY ANTI-SIEZE LUBRICANT (2) ROLLED & PLATED STEM THREADS FOR STRENGTH



NON ROTATING STEM ANTI GALLING (SELF CENTERING)

RATING	6000 PSI CWP (4134 kPa)(@-29~40°C)	TEST PRESSURE	
DESIGN & MFG.	ASME B16.34 CLASS 2500	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	ASME B16.34 CLASS 2500	62.0 Mpa 9000 Psi	45.5 Mpa 6600 Psi
FACE TO FACE DIM.	AS SHOWN ±1.0MM	SEAT NITROGEN	BODY NITROGEN
END CONNECTION	NPT MALE X FEMALE	13.79 Mpa 2000 Psi	13.79 Mpa 2000 Psi
END DIMENSION	ANSI B1.20.1	TEMPERATURE	
TEST	MSS-SP61 NITROGEN & WATER BODY & SEAT	-29 TO 120 °C	-20 TO 248 °F
MARKING	MSS SP-55, PICKLED & PASSIVATED	MEDIUM	Water, Oil, Gas
OTHER REQ.	NACE MR-01-75 & MR-01-03		
PORT SIZE	SEE TABLE BELOW		
TRIM	316SS METAL SEAT		
NOTES	BACK SEATED STEM		
OTHER	NON ROTATING VEE TIP-ANTI GALLING		
SPECIAL	OPTIONAL HP & LP SEAT TEST PERFORMED BUBBLE TIGHT SHUT OFF		

DIMENSIONS (MM) & WEIGHT (KG)

Inlet	Outlet	CV	Orifice	AA	B	H	W	Weight
3/4" NPT(M)	3/4" NPT(M)	1.4 MAX	6.35mm	85	36	82.50	60	0.75

Dimensions in millimeters

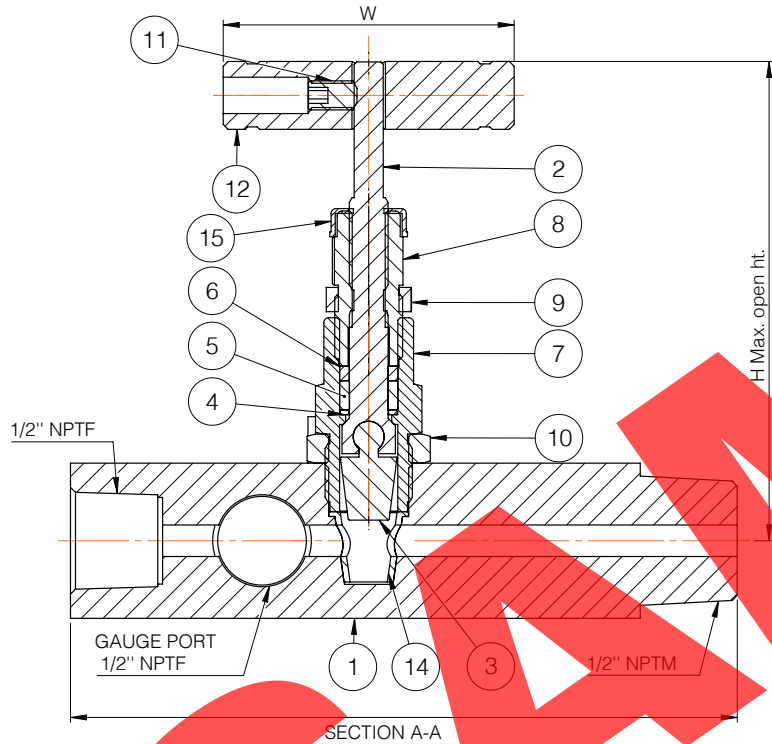
3/4" (20NB) NPT(M) Inlet x 3/4" (20NB) NPT(F) Outlet, Integral Block & Bleed Valve, Globe Style, Model S-M9VIS-66-BLSG, Hand Operated, 316SS

Australian Pipeline Valve - Flowturn

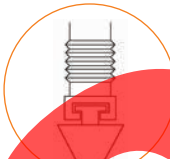
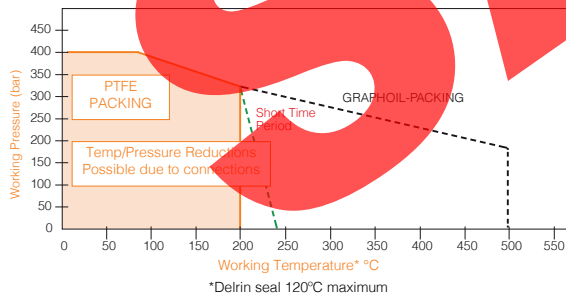
ORDER No/ DWG No	XXXXXX-99	APPROVED	B.T.
REV.	00	CHECKED	S.Q.
		DRAWN	C.C.



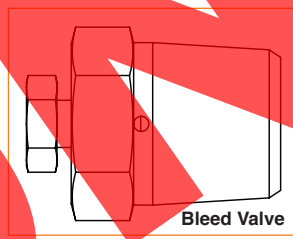
AUSTRALIAN PIPELINE VALVE®
www.australianpipelinevalve.com.au



SAFETY UNION BONNET CONSTRUCTION PREVENTS ACCIDENTAL VALVE DISASSEMBLY. ADJUSTABLE PACKING BELOW THREADS.



NON ROTATING STEM ANTI GALLING (SELF CENTERING)



Bleed Valve

BILL OF MATERIALS

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A105	CAD PLATED
2	SPINDLE	ASTM A276 316	(2)
3	V-TIP	ASTM A276 316	-
4	PACKING	TEFLON	-
5	PACKING	TEFLON	-
6	WASHER	ASTM A276 316	-
7	GLAND BODY	ASTM A105	CAD PLATED
8	RETAINER	ASTM A105	CAD PLATED
9	LOCK NUT	ASTM A105	(1)
10	LOCK NUT	ASTM A105	(1)
11	GRUB SCREW	AISI 304SS	-
12	HANDLE	ASTM A105	CAD PLATED
13	DOWEL PIN	AISI 316SS	-
14	SOFT SEAT	DELRIN	-
15	DUST CAP	PLASTIC	-
16	BLEEDER VALVE	ASTM A105	CAD PLATED
17	VENT PLUG	ASTM A479 316	-

(1) MOLLY ANTI-SIEZE LUBRICANT (2) ROLLED & PLATED STEM THREADS FOR STRENGTH

RATING	6000 PSI CWP (4134 kPa)(@-29~40°C)	TEST PRESSURE	
DESIGN & MFG.	ASME B16.34 CLASS 2500	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	ASME B16.34 CLASS 2500	62.0 Mpa	9000 Psi
FACE TO FACE DIM.	AS SHOWN ±1.0MM	4.5 Mpa	6600 Psi
END CONNECTION	NPT MALE X FEMALE	SEAT NITROGEN	BODY NITROGEN
END DIMENSION	ANSI B1.20.1	13.79 Mpa	2000 Psi
TEST	MSS-SP61 NITROGEN & WATER BODY & SEAT	TEMPERATURE	
MARKING	MSS SP-55	-29 TO 120 °C	-20 TO 248 °F
OTHER REQ.	NACE MR-01-75 & MR-01-03	MEDIUM	Water, Oil, Gas
PORT SIZE	SEE TABLE BELOW		
TRIM	316SS DELRIN SEAT BUBBLE TIGHT SHUT OFF		
NOTES	BACK SEATED STEM		
OTHER	NON ROTATING VEE TIP-ANTI GALLING		
SPECIAL	OPTIONAL HP & LP SEAT TEST PERFORMED BUBBLE TIGHT SHUT OFF		

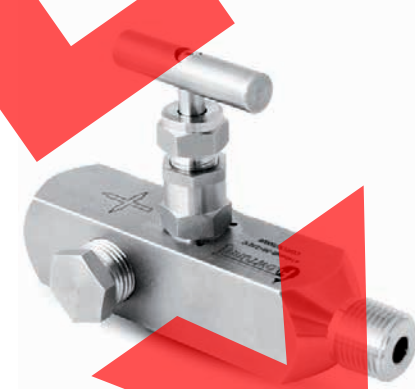
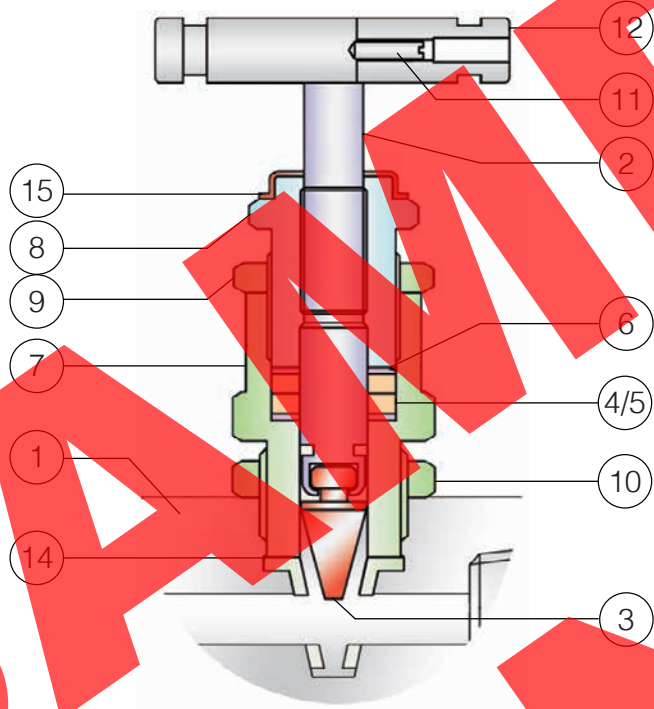
DIMENSIONS (MM) & WEIGHT (KG)

Inlet	Outlet	CV	Orifice	AA	B	H	W	Weight
3/4" NPT(M)	3/4" NPT(M)	1.4 MAX	4.8mm	137.5	32	98.80	60	0.75

Dimensions in millimeters

1/2" (15NB) NPT(F) Inlet x 1/2" (15NB) NPT(F) Outlet,
Straight Through Block & Bleed Valve, Plug Style,
Model S-M5VDC-44-BL-SVA,
Hand Operated, A105 Delrin Seat

ORDER No/ DWG No	XXXXXX-99	APPROVED	B.T.
REV.	00	CHECKED	S.Q.
Australian Pipeline Valve - Flowturn		DRAWN	C.C.

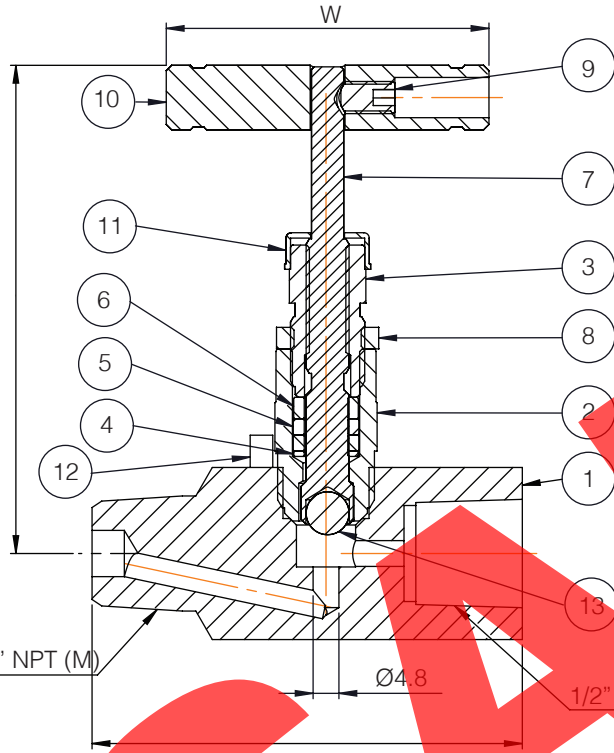


Bonnet Assembly

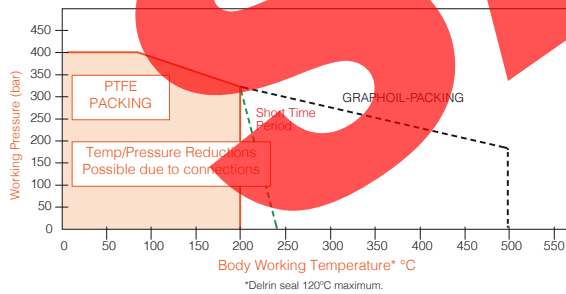
Safety union construction prevents accidental valve disassembly.
Adjustable packing below stem threads. Back seated stem.



AUSTRALIAN PIPELINE VALVE®
www.australianpipelinevalve.com.au



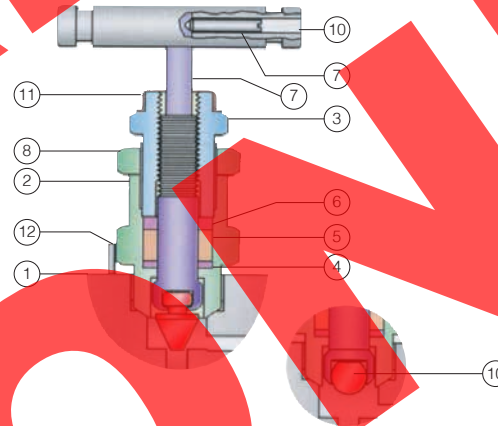
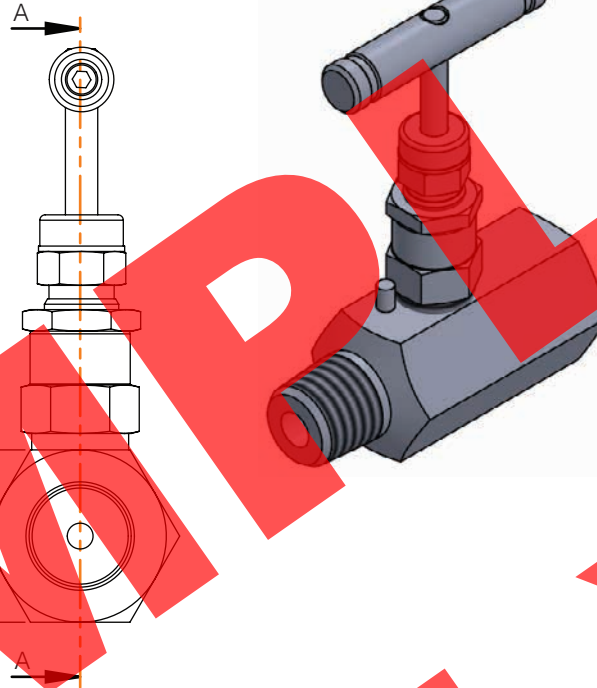
SECTION A-A



DIMENSIONS (MM) & WEIGHT (KG)

Inlet	Outlet	CV	Orifice	AA	B	H	W	Weight
1/2" NPT(M)	1/2" NPT(M)	1.4 MAX	4.8mm	80	32	85	60	0.60

Dimensions in millimeters



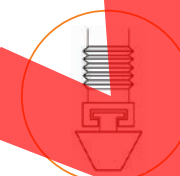
BONNET ASSEMBLY

SAFETY UNION BONNET CONSTRUCTION PREVENTS ACCIDENTAL VALVE DISASSEMBLY. ADJUSTABLE PACKING BELOW THREADS. BACK SEATED STEM.

BILL OF MATERIALS

NO.	PART NAME	MATERIAL	NOTES
1	MAIN BODY	ASTM A479 316	-
2	GLAND BODY	ASTM A479 316	-
3	SCREWED RETAINER	ASTM A479 316	(1)
4	PACKING SEAL	DELTRIN	-
5	PACKING	TEFLON	-
6	WASHER	AISI 316SS	-
7	SPINDLE	ASTM A479 316	(2)
8	LOCK NUT	ASTM A479 316	(1)
9	GRUB SCREW	AISI 304SS	-
10	HANDLE	SS300 (18-8)	-
11	DUST CAP	PLASTIC	-
12	DOWEL PIN	AISI 304SS	-
13	BALL TIP (NON ROTATING)	SS440C	-

(1) MOLLY ANTI-SIEZE LUBRICANT (2) ROLLED & PLATED STEM THREADS FOR STRENGTH



NON ROTATING STEM ANTI GALLING (SELF CENTERING)

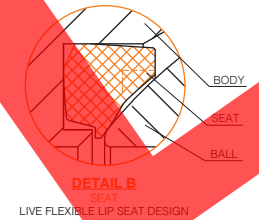
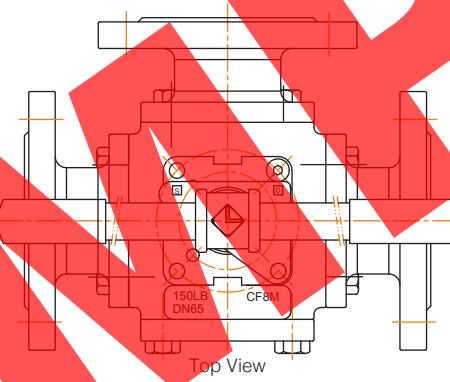
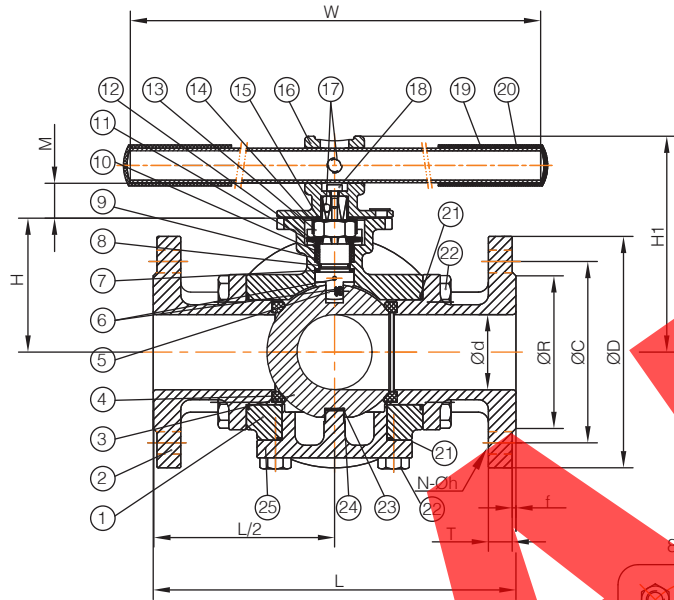
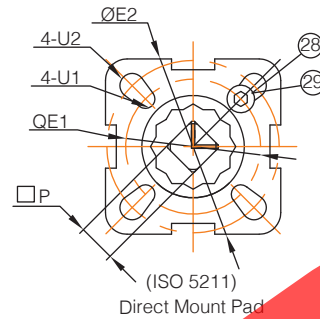


RATING	6000 PSI CWP (4134 kPa)(@-29~40°C)	TEST PRESSURE	
DESIGN & MFG.	ASME B16.34 CLASS 2500	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	ASME B16.34 CLASS 2500	62.0 Mpa 9000 Psi	45.5 Mpa 6600 Psi
FACE TO FACE DIM.	AS SHOWN ±1.0MM	SEAT NITROGEN	BODY NITROGEN
END CONNECTION	NPT MALE X FEMALE	13.79 Mpa 2000 Psi	13.79 Mpa 2000 Psi
END DIMENSION	ANSI B1.20.1	TEMPERATURE	
TEST	MSS-SP61 NITROGEN & WATER BODY & SEAT	-29 TO 120 °C	-20 TO 248 °F
MARKING	MSS SP-55, PICKLED & PASSIVATED	MEDIUM	Water, Oil, Gas
OTHER REQ.	NACE MR-01-75 & MR-01-03		
PORT SIZE	SEE TABLE BELOW		
TRIM	316SS METAL SEAT TIGHT SHUT OFF		
NOTES	BACK SEATED STEM		
OTHER	NON ROTATING VEE TIP-ANTI GALLING		
SPECIAL	OPTIONAL HP & LP SEAT TEST PERFORMED BUBBLE TIGHT SHUT OFF		

1/2" (15NB) NPT(M) Inlet x 1/2" (15NB) NPT(F) Outlet, Globe Style, Model S-H7HIS-44Q-BL, Hand Operated, 316SS	ORDER No/ DWG No	XXXXXX-99	APPROVED	B.T.
	REV.	00	CHECKED	S.Q.
Australian Pipeline Valve - Flowturn			DRAWN	C.C.



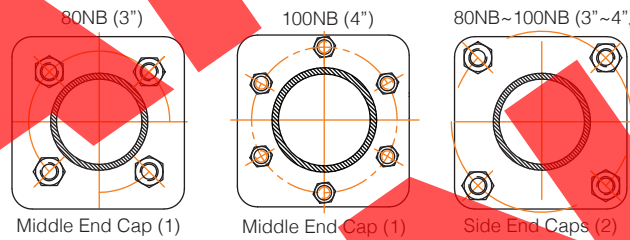
AUSTRALIAN PIPELINE VALVE®
www.australianpipelinevalve.com.au



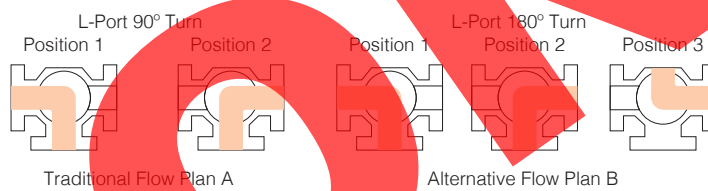
150 Class CV/Litre/Minute at 1 PSI pressure drop L port	
25NB	150
40NB	189
50NB	529
65NB	604
80NB	982
100NB	1625
150NB	3326
200NB	5670

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A351 CF8M	(4)
2	END CAPS (3)	ASTM A351 CF8M	(4) SOLID
3	BALL (L) 90° TURN	ASTM A351 CF8M	SOLID
4	SEATS (4 SEATS)	TFM 1600 (PTFE)	ENERGISED
5	STEM	ASTM A182 316SS	(7)
6	ANTISTATIC SPRING/BALLS	AISI 316SS	(3)
7	THRUST WASHER	PTFE	(6)
8	O-RING	FKM VITON	(6)
9	PACKING	GRAPHITE	(6) (8)
10	BUSHING	50% SS+50%PTFE	(6)
11	GLAND	AISI 316SS	-
12	BELLEVILLE WASHERS	AISI 301SS	(6) SET
13	STEM NUT	A194-8	-
14	STOP-LOCK-CAP	AISI 304SS	-
15	HANDLE GLAND	AISI 304SS	-
16	HANDLE ADAPTOR LOCKABLE	ASTM A351 CF8	(1) (5)
17	SET SCREW	A2-70 SS	(2) (304SS)
18	BOLTS	A2-70 SS	(304SS)
19	POLE LEVER	A53	ZINC PLATED
20	HANDLE SLEEVE	VINYL PLASTIC	-
21	BODY GASKETS (4)	GRAPHITE	(4) ENCAPSULATED
22	BOLTS	ASTM A193 B8	-
23	PAD SEAT	50%SS+50%PTFE	-
24	TRUNNION BEARING	50%SS+50%PTFE	-
25	BOTTOM FLANGE & TRUNNION	ASTM A351 CF8M	INTEGRAL TRUNNION
26	SIDE FLANGE	ASTM A351 CF8M	-
27	TRUNNION FLANGE	GRAPHITE	-
28	STOP BOLT	A2-70 SS	(304SS)
29	STOP NUT	A2-70 SS	(304SS)

(1) LOCKABLE IN 90° INCREMENTS (7) STEM SMOOTHNESS Ra: 0.80 - 1.4 µm
 (2) POSITIVE POSITION INDICATION 90° INCREMENTS (8) STUFFING BOX SMOOTHNESS Ra: ≤1.3 - 1.5 µm
 (3) ANTISTATIC DEVICE BODY-STEM-BALL
 (4) TUV AD2000-MERKBLATT APPROVED CASTING
 (5) INTEGRAL LOCK DEVICE LOCKABLE OPEN/CLOSE
 (6) ENERGISED TRIPLE BARRIER STEM SEAL - HIGH CYCLE DESIGN



L-Port Flow Pattern



RATING	CL 150	TEST PRESSURE	
DESIGN & MFG.	ISO 17292, ASME B16.34	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	ASME B16.34	2.9 Mpa / 425 Psi	2.2 Mpa / 325 Psi
FACE TO FACE DIM.	APV STD	SEAT AIR	BACKSEAT
END CONNECTION	RFSF 3.2-6.3Ra	0.6 Mpa / 87 Psi	0.0 Mpa / 000 Psi
END DIMENSION	ANSI B16.5	TEMPERATURE	
TEST & INSPECTION	API 598/ISO 5208-A	-29 TO 180 °C	-20 TO 356 °F
MARKING & PAINT	MSS SP-25, PICKLED & PASSIVATED	MEDIUM	Fluid/Gas
OTHER REQ.	DIRECT MOUNT PAD, NACE MR-01-75 & MR-01-03		
PORT SIZE	FULL PORT, L-PORT, 4 SEATS, TRANS-FLOW		
TRIM	316 TRIM, TA LUFT COMPLIANT		
NOTES	BLOW OUT PROOF STEM, ANTISTATIC DESIGN BODY STEM/BALL STEM		
SPECIAL			

DIMENSIONS (MM) & WEIGHT (KG)

Inch	DN	L	d	R	D	C	T	f	N	h	H	H1	W	P	M	E1	E2	U1	U2	ISO 5211	Weight
3"	80	310	75	127	190	152.4	17.5	1.6	4	19	119	185	400	17	17	70	102	9	11	F07-F10	34.0
4"	100	367	99	157	230	190.5	22.3	1.6	8	19	150	221	400	22	22	102	102	11	11	F10	78.6

Dimensions in millimeters

Anti static 3 Way Ball Valve, Pad Mounted Ball, 90 Degree Turn, Model BV-509-L5UL, L Port, High Cycle Design NPS 3"~4" (DN80~DN100) Class 150, RF, Lever Operated, FB, CF8M

ORDER NO / DWG NO	XXXXXXXX-99	APPROVED	B.T.
REV.	00	CHECKED	S.Q.
Australian Pipeline Valve - Flowturn		DRAWN	C.C.

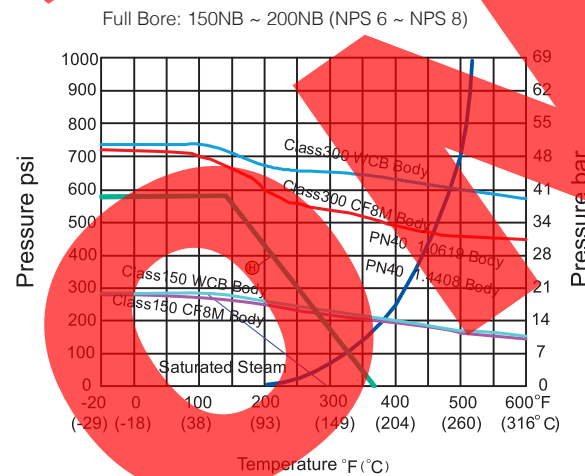
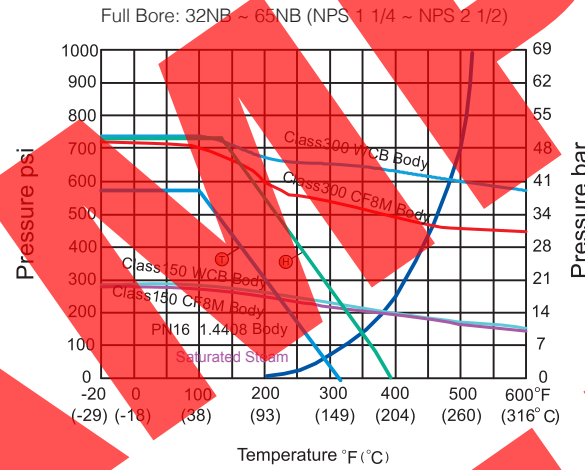
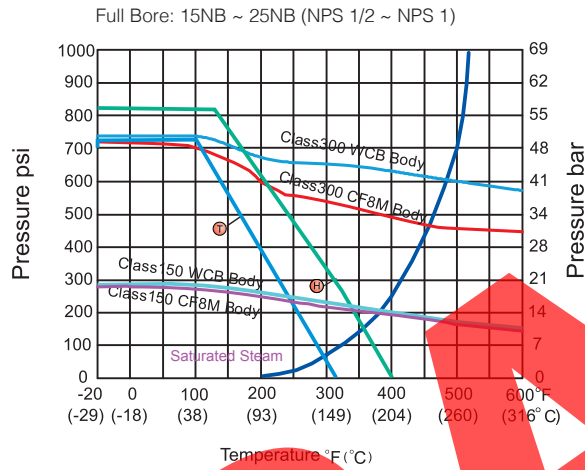


AUSTRALIAN PIPELINE VALVE®
www.australianpipelinevalve.com.au



PRESSURE - TEMPERATURE DATA

The pressure - temperature data of ball valves is determined not only by valve shell materials but also by sealing materials used for ball seats, gland packing and flange gaskets.



Torque Values

Break to Open Torque at Various Differential Pressure (ΔP), Standard Seats (TFM1600 & PTFE)

Size/ ΔP	75 psig 5 bar		150 psig 10 bar		300 psig 20 bar		700 psig 50 bar	
	N-m	In-lb	N-m	In-lb	N-m	In-lb	N-m	In-lb
1/2	9	80	9	80	10	88	10	88
3/4	14	124	14	124	15	133	15	133
1	18	159	18	159	19	168	22	195
1 1/4	25	221	26	230	27	239	33	292
1 1/2	35	310	38	336	42	372	46	407
2	45	398	50	442	56	496	65	575
2 1/2	70	619	79	699	86	761	100	885
3	110	973	122	1080	138	1221	160	1416
4	190	1681	209	1850	232	2053	265	2345
5	360	3186	390	3452	460	4071	580	5133
6	580	5133	640	5664	700	6195	860	7611
8	680	6018	800	7080	920	8142	1150	10117



**AUSTRALIAN
PIPELINE VALVE®**
www.australianpipelinevalve.com.au



EXPLODED VIEW

