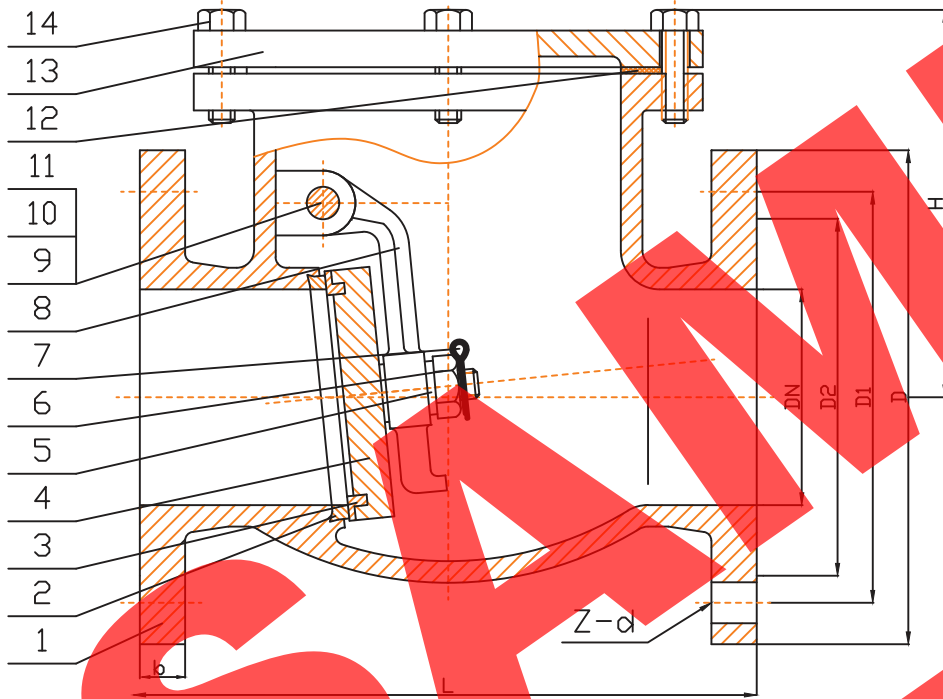




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**BILL OF MATERIALS**

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A216-B	GREY CAST IRON+FBE
2	BODY SEAT RING	ASTM B62	BRONZE
3	DISC SEAT RING	ASTM B62	BRONZE
4	DISC	ASTM A536	DUCTILE IRON
5	WASHER	BS1769	CARBON STEEL+ZP
6	NUT	ASTM A307-B	CARBON STEEL+ZP
7	COTTER PIN	AISI SS304	STAINLESS STEEL
8	ARM	ASTM A537	DUCTILE IRON+FBE
9	HINGE PIN	2Cr13 (SS420)	STAINLESS STEEL
10	PLUG	ASTM A307-B	CARBON STEEL
11	GASKET	PTFE	TEFLON
12	GASKET	ASTM D2	NBR FULL FACE
13	BONNET	ASTM A216-B	GREY CAST IRON+FBE
14	BONNET BOLT	ASTM A307-B	CARBON STEEL+ZP

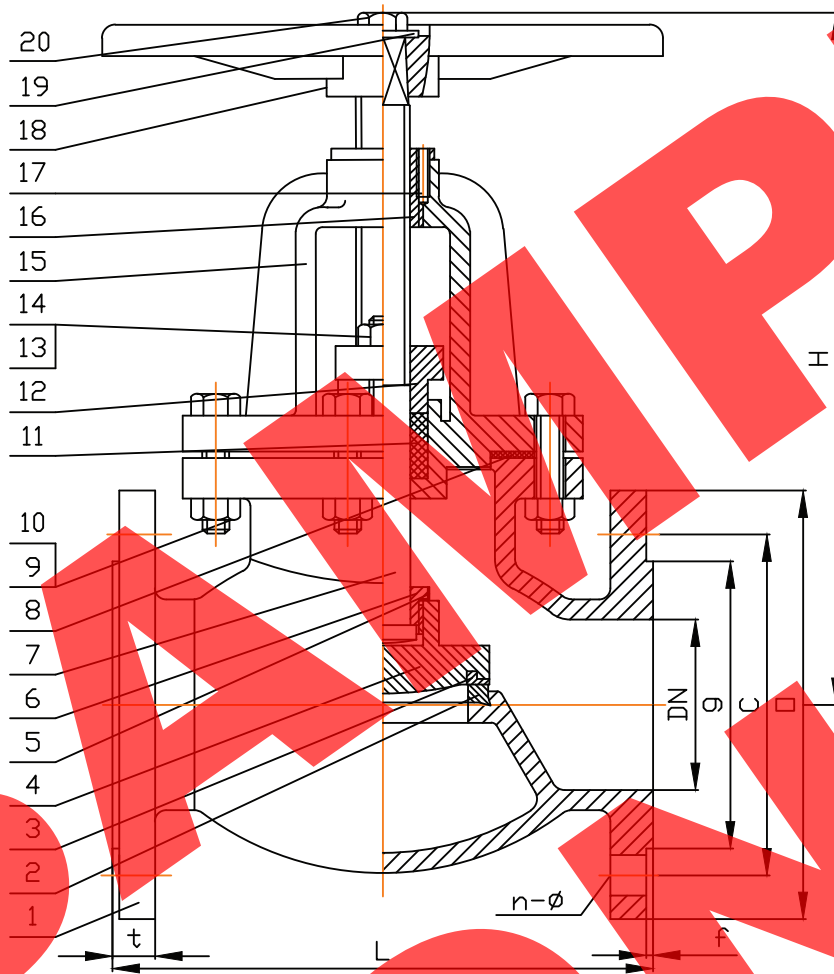
<b>RATING</b>	PN16 1600kPa CWP	<b>TEST PRESSURE</b>	
<b>DESIGN &amp; MFG.</b>	BS EN 16767 (BS5153) PN16	<b>SHELL HYDRO</b>	<b>SEAT HYDRO</b>
<b>PRESS-TEMP RATING</b>	AS4331.1/EN1092-2/AS4087 PN16	2.4 Mpa 348 Psi	1.76 Mpa 255 Psi
<b>FACE TO FACE DIM.</b>	BS EN 16767 (BS5153) PN16 & EN-558-1	<b>SEAT AIR</b>	<b>BACKSEAT</b>
<b>END DIMENSION</b>	TABLE E AS2129/AS4087 PN16	Mpa	Psi
<b>END CONNECTION</b>	FF AS2129 TABLE E DRILLING	<b>TEMPERATURE</b>	
<b>TEST &amp; INSPECTION</b>	AS4794 CLASS 16 ISO 5208 & EN1226-1/2 PN16	-4 TO 100 °C	24.8 TO 212 °F
<b>MARKING</b>	MSS SP-25	<b>MEDIUM</b>	Water
<b>OTHER REQ.</b>			
<b>PORT SIZE</b>	FULL		
<b>TRIM</b>	BRONZE		
<b>NOTES</b>	-		
<b>OTHER</b>	PAINTING: - FBE (FUSION BONDED EPOXY) BLUE FBE-CI-01		

**DIMENSIONS (MM) & WEIGHT (KG)**

Inch	DN	D	D1	L	b	H	n-ø	Weight
2"	50	152.4	114.3	203	18.0	137	4-18	20
2 1/2"	65	165.1	127.0	216	19.0	147	4-18	26
3"	80	191.0	146.0	241	20.0	159	4-18	30
4"	100	215.9	177.8	292	24.0	184	8-18	55
5"	125	254.0	209.6	330	24.0	212	8-18	70
6"	150	279.4	235.0	356	25.5	227	8-22	110
8"	200	336.6	292.1	495	29.0	263	8-23	180
10"	250	406.4	355.6	622	30.2	290	12-22	210
12"	300	457.2	406.4	698	32.0	325	12-26	330

Dimensions in millimeters

Swing Check Valve, Model SL404 NPS 4"~8" (DN100~DN200), Table E, FF, BB, 1600 kPa	<b>ORDER N° / DWG N°</b>	XXXXXX-99	<b>APPROVED</b>	B.T.
	<b>REV.</b>	00	<b>CHECKED</b>	S.Q.
<b>Australian Pipeline Valve</b>			<b>DRAWN</b>	C.C.



**BILL OF MATERIALS**

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A216-B	GREY CAST IRON+FBE
2	BODY SEAT RING	ASTM B62	BRONZE
3	DISC SEAT RING	ASTM B62	BRONZE
4	DISC	ASTM A536	DUCTILE IRON
5	COPPER WASHER	ASTM B21	BRASS
6	DISC NUT	ASTM B21	BRASS
7	STEM	CNS S42000 SS420 (2Cr13)	STAINLESS STEEL
8	GASKET	BSEN681-1	NITRILE FULL FACE
9	BONNET BOLT	ASTM A307-B	CARBON STEEL+ZP
10	NUT	ASTM A307-B	CARBON STEEL+ZP
11	PACKING	GRAPHITE	CARBON STEEL+ZP
12	GLAND	ASTM A536	DUCTILE IRON
13	STUD	ASTM A307-B	CARBON STEEL+ZP
14	NUT	ASTM A307-B	CARBON STEEL+ZP
15	BONNET	ASTM A216-B	CARBON IRON
16	STEM NUT	ASTM B21	BRASS
17	BOLT	ASTM A307-B	CARBON STEEL+ZP
18	WHEEL	ASTM A536	DUCTILE IRON
19	WASHER	ASTM A307-B	CARBON STEEL+ZP
20	WHEEL BOLT	ASTM A307-B	CARBON STEEL+ZP

RATING	PN16 1600kPa CWP	TEST PRESSURE	
DESIGN & MFG.	BS/EN13789 (BS 5152) EN1092-2 PN16	SHELL HYDRO	SEAT HYDRO
PRESS-TEMP RATING	EN1092-2/AS4087/AS4331.1 PN16	2.4 Mpa 348 Psi	1.76 Mpa 255 Psi
FACE TO FACE DIM.	BS/EN13789 (BS 5152) EN1092-2 PN16	SEAT AIR	BACKSEAT
END DIMENSION	TABLE E AS2129/AS4087 PN16	Mpa	Psi
END CONNECTION	RF TABLE E AS2129 DRILLING	TEMPERATURE	
TEST & INSPECTION	EN1226-1/2 PN16 BSEN13789 & ISO 5208	-4 TO 100 °C	24.8 TO 212 °F
MARKING	MSS SP-25	MEDIUM	Water, Oil, Gas
OTHER REQ.			
PORT SIZE	FULL		
TRIM	BRONZE		
NOTES	-		
OTHER	PAINTING: - FBE (FUSION BONDED EPOXY) FBE-CI-01		

**DIMENSIONS (MM) & WEIGHT (KG)**

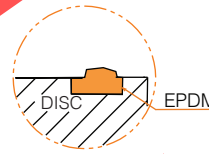
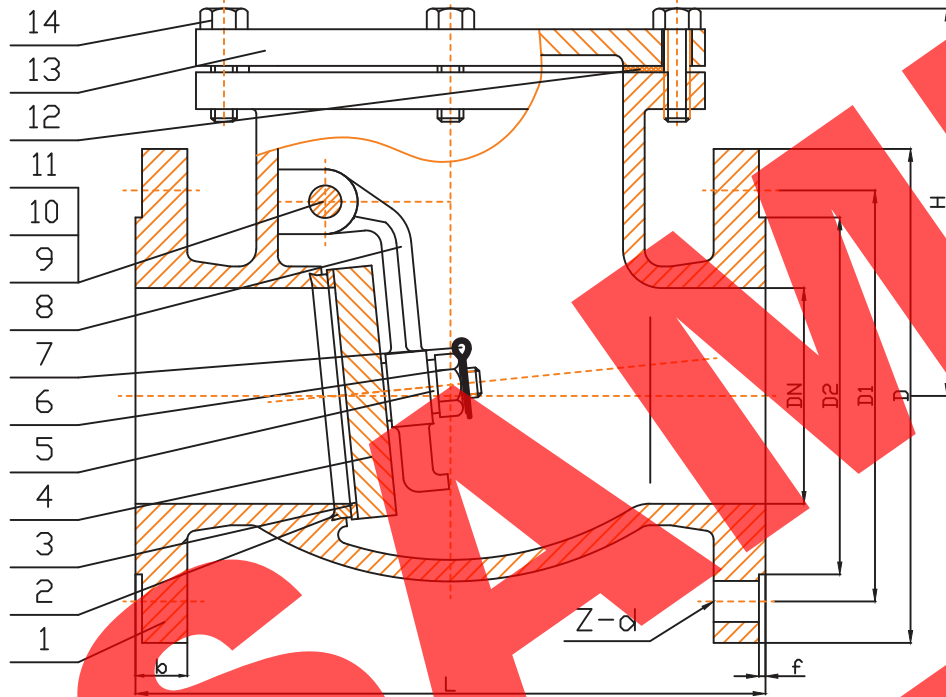
Inch	DN	L	O	C	g	f	t	n-ø	H	Weight
3"	80	241	200	146	132	3	22	4-19	306	34
4"	100	292	220	177.8	156	3	24	8-19	372	54
5"	125	330	253	209.6	184	3	26	8-19	484	71
8"	200	495	340	292.1	266	3	30	8-23	624	180

Dimensions in millimeters

Globe Valve, Model SL201-16 NPS 3"~8" (DN80~DN200), Table E, RF, BBISY, Non Rising stem	ORDER N°/ DWG N°	XXXXXX-99	APPROVED	B.T.
	REV.	00	CHECKED	S.Q.
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SOFT SEAT INSERT DETAIL

**BILL OF MATERIALS**

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A216-B	GREY CAST IRON+FBE
2	BODY SEAT RING	ASTM B62	BRONZE
3	DISC SEAT RING	NBR ENCAPSULATED	ASTM D200004 BONDED
4	DISC	ASTM A536	DUCTILE IRON
5	WASHER	BS1769	CARBON STEEL+ZP
6	NUT	ASTM A307-B	CARBON STEEL+ZP
7	COTTER PIN	AISI SS304	STAINLESS STEEL
8	ARM	ASTM A537	DUCTILE IRON+FBE
9	HINGE PIN	2Cr13 (SS420)	STAINLESS STEEL
10	PLUG	ASTM A307-B	CARBON STEEL+ZP
11	GASKET	PTFE	TEFLON
12	GASKET	NITRILE	ASTM D2 FULL FACE
13	BONNET	ASTM A216-B	GREY CAST IRON+FBE
14	BONNET BOLT	ASTM A307-B	CARBON STEEL+ZP

<b>RATING</b>	PN16 1600kPa CWP	<b>TEST PRESSURE</b>	
<b>DESIGN &amp; MFG.</b>	BS EN 16767 (BS5153) PN16	<b>SHELL HYDRO</b>	<b>SEAT HYDRO</b>
<b>PRESS-TEMP RATING</b>	AS4331.1/EN1092-2/AS4087 PN16	2.4 Mpa   348 Psi	1.76 Mpa   255 Psi
<b>FACE TO FACE DIM.</b>	BS EN 16767 (BS5153) PN16 & EN-558-1	<b>SEAT AIR</b>	<b>BACKSEAT</b>
<b>END DIMENSION</b>	TABLE E AS2129/AS4087 PN16	Mpa   Psi	Mpa   Psi
<b>END CONNECTION</b>	RF AS2129 TABLE E DRILLING	<b>TEMPERATURE</b>	
<b>TEST &amp; INSPECTION</b>	AS4794 CLASS 16 ISO 5208 & EN1226-1/2 PN16	-4 TO 100 °C	24.8 TO 212 °F
<b>MARKING</b>	MSS SP-25	<b>MEDIUM</b>	Water
<b>OTHER REQ.</b>			
<b>PORT SIZE</b>	FULL		
<b>TRIM</b>	BRONZE/NBR		
<b>NOTES</b>	-		
<b>OTHER</b>	PAINTING: - FBE (FUSION BONDED EPOXY) BLUE FBE-CI-01		

**DIMENSIONS (MM) & WEIGHT (KG)**

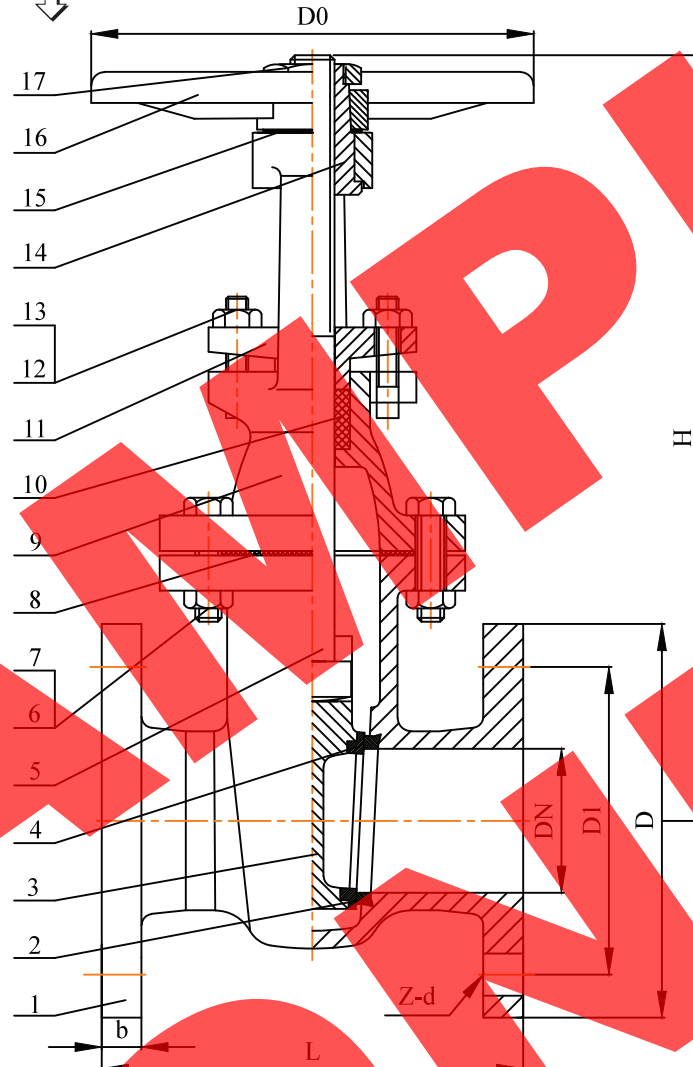
Inch	DN	D	D1	L	b	f	H	n-ø	Weight
2"	50	152.4	114.3	203	18.0	2	137	4-18	20
2 1/2"	65	165.1	127.0	216	19.0	2	147	4-18	26
3"	80	191.0	146.0	241	20.0	2	159	4-18	30
4"	100	215.9	177.8	292	24.0	2	184	8-18	55
5"	125	254.0	209.6	330	24.0	2	212	8-18	70
6"	150	279.4	235.0	356	25.5	2	227	8-22	110
8"	200	336.6	292.1	495	29.0	2	263	8-23	180
10"	250	406.4	355.6	622	30.2	2	290	12-22	210
12"	300	457.2	406.4	698	32.0	2	325	12-26	330

Dimensions in millimeters

Swing Check Valve, Model SL404 NPS 4"~8" (DN100~DN200), Table E, RF, BB, 1600 kPa	<b>ORDER N°/ DWG N°</b>	XXXXXX-99	<b>APPROVED</b>	B.T.
	<b>REV.</b>	00	<b>CHECKED</b>	S.Q.
<b>Australian Pipeline Valve</b>			<b>DRAWN</b>	C.C.



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**BILL OF MATERIALS**

NO.	PART NAME	MATERIAL	NOTES
1	BODY	GREY CAST IRON+FBE*	ASTM A126B
2	BODY SEAT RING	BRONZE	ASTM B62
3	WEDGE	DUCTILE IRON	ASTM A536
4	WEDGE SEAT RING	BRONZE	ASTM B62
5	STEM	STAINLESS STEEL	2CR13
6	BONNET BOLT	CARBON STEEL+ZP	ASTM A307+ZP
7	NUT	CARBON STEEL+ZP	ASTM A307+ZP
8	GASKET	FULL FACE NITRILE	-
9	BONNET	GREY CAST IRON+FBE	ASTM A126B
10	PACKING	PTFE	-
11	GLAND	DUCTILE IRON+ZP	ASTM A536
12	T BOLT	CARBON STEEL+ZP	ASTM A307B+ZP
13	NUT	CARBON STEEL+ZP	ASTM A307B+ZP
14	STEM NUT	BRONZE	ASTM B62
15	WASHER	NYLON	-
16	WHEEL	DUCTILE IRON	ASTM A536
17	LOCKING NUT	BRONZE	ASTM B62

<b>RATING</b>	PN16	<b>TEST PRESSURE</b>	
<b>DESIGN &amp; MFG.</b>	BSEN1171/BS5163 PN16 & AS2638.1 CLASS 16	<b>SHELL HYDRO</b>	<b>SEAT HYDRO</b>
<b>PRESS-TEMP RATING</b>	EN1092-2 PN16/AS4087 PN16	2.4 Mpa   348 Psi	1.76 Mpa   255 Psi
<b>FACE TO FACE DIM.</b>	EN558/BSEN1171/BS5163 PN16/AS2638.1 PN16	<b>SEAT AIR</b>	<b>BACKSEAT</b>
<b>END DIMENSION</b>	TABLE E AS2129, AS4087 PN16	Mpa   Psi	Mpa   Psi
<b>END CONNECTION</b>	FF AS2129 TABLE E DRILLING	<b>TEMPERATURE</b>	
<b>TEST &amp; INSPECTION</b>	EN1226-1 PN16 & AS 2638.1 CLASS 16	-4 TO 100 °C	24.8 TO 212 °F
<b>MARKING</b>	MSS SP-25	<b>MEDIUM</b>	Water
<b>OTHER REQ.</b>	AS3579 CONFORMS		
<b>PORT SIZE</b>	FULL		
<b>TRIM</b>	BRONZE		
<b>NOTES</b>	-		
<b>OTHER</b>	PAINTING: - *FBE (FUSION BONDED EPOXY) FBE-CI-01 (BLUE)		

**DIMENSIONS (MM) & WEIGHT (KG)**

Inch	DN	D	D1	L	b	H	z-d	Do	Weight
2"	50	152.4	114.3	178	16.0	329	4-18	200	15
2-1/2"	65	165.1	127.0	191	17.5	372	4-18	200	21
3"	80	184.2	146.0	203	19.0	426	4-18	200	26
4"	100	215.9	177.8	229	24.0	496	8-18	240	44
5"	125	254.0	209.6	254	24.0	571	8-18	240	61
6"	150	279.4	235.0	267	25.5	630	8-22	280	74
8"	200	336.6	292.1	292	29.0	830	8-23	350	127

Dimensions in millimeters

Wedge Gate Valve, Model SL601-16  
NPS 2"~8" (DN50~DN200), HWOP,  
Table E, FF, BBOSY, Rising stem

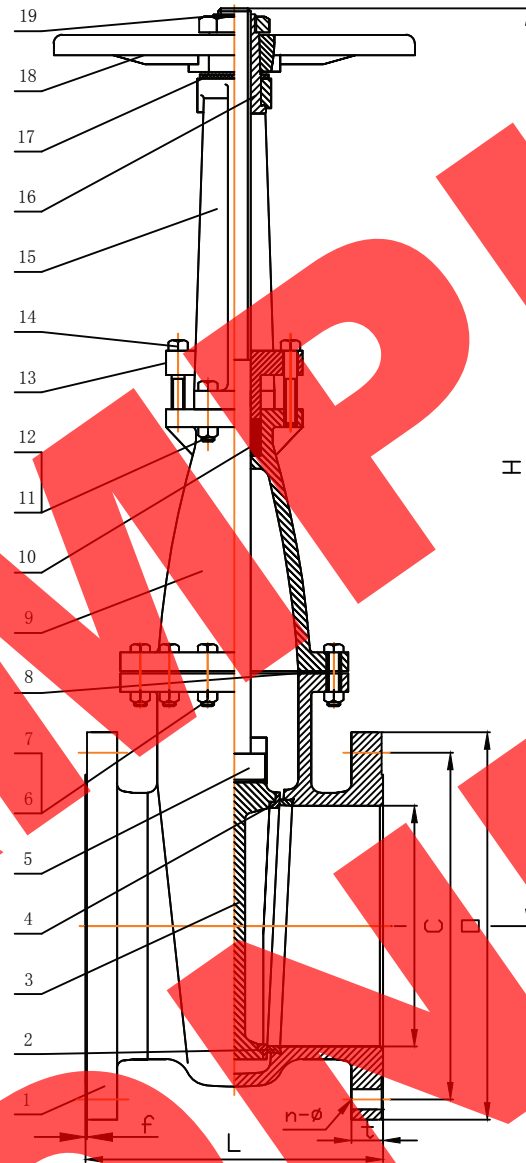
Australian Pipeline Valve	<b>ORDER N°/ DWG N°</b>	XXXXXX-99	<b>APPROVED</b>	B.T.
	<b>REV.</b>	00	<b>CHECKED</b>	S.Q.
			<b>DRAWN</b>	C.C.

<b>GENERAL SERVICE APPLICATION</b>	Cast Iron/Ductile Iron surfaces
<b>SCOPE</b>	Standard level protection against weathering, brackish water, salt spray, mild acids, alkaline solutions. Resistance to solvents. Good electrical insulation.
<b>TEMPERATURE RESISTANCE</b>	-29°C ~ 180°C
<b>PRELIMINARY SURFACE PREPARATION</b>	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.
<b>PROTECTION OF UNPAINTED PARTS</b>	Paint prior to assembly internal & external.
<b>FINAL SURFACE PREPARATION</b>	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.
<b>PAINT APPLICATION</b>	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 $\mu\text{m}$
TOTAL DRY FILM THICKNESS:			250 $\mu\text{m}$

**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



**BILL OF MATERIALS**

NO.	PART NAME	MATERIAL	NOTES
1	BODY	DUCTILE IRON+FBE*	ASTM A395
2	BODY SEAT RING	BRONZE	ASTM B62
3	WEDGE	DUCTILE IRON+FBE*	ASTM A395
4	WEDGE SEAT RING	BRONZE	ASTM B62
5	STEM	STAINLESS STEEL	SS420 (2CR13)
6	BONNET BOLT	CARBON STEEL+ZP	ASTM A307-8
7	NUT	CARBON STEEL+ZP	ASTM A307-8
8	GASKET	FULL FACE NITRILE	BSEN681-1
9	BONNET	DUCTILE IRON+FBE*	ASTM A395
10	PACKING	PTFE	-
11	BOLT	CARBON STEEL+ZP	ASTM A307-8
12	NUT	CARBON STEEL+ZP	ASTM A307-8
13	GLAND	DUCTILE IRON+FBE*	ASTM A395
14	BOLT	CARBON STEEL	A3+ZP
15	YOKE	DUCTILE IRON+FBE*	ASTM A395
16	STEM NUT	BRASS	ASTM A21
17	WASHER	TEFLON	PTFE
18	WHEEL	DUCTILE IRON	BSEN1563
19	LOCKING NUT	BRASS	ASTM B21

\* BLUE

<b>RATING</b>	PN16	<b>TEST PRESSURE</b>	
<b>DESIGN &amp; MFG.</b>	BS 5163 PN16/BS EN 1171 & AS 2638.1 CLASS 16	<b>SHELL HYDRO</b>	<b>SEAT HYDRO</b>
<b>PRESS-TEMP RATING</b>	AS4331.1/EN1092-2/AS4087 PN16	2.4 Mpa 348 Psi	1.76 Mpa 255 Psi
<b>FACE TO FACE DIM.</b>	EN558/BS5163/BSEN1171/AS2638.1 PN16/AS3579	<b>SEAT AIR</b>	<b>BACKSEAT</b>
<b>END DIMENSION</b>	TABLE E AS2129/AS4087 PN16	Mpa	Psi
<b>END CONNECTION</b>	RF AS2129 TABLE E DRILLING	Mpa	Psi
<b>TEST &amp; INSPECTION</b>	EN1226-1 PN16 & AS 2638.1 CLASS 16	<b>TEMPERATURE</b>	
<b>MARKING</b>	MSS SP-25	-4 TO 100 °C	24.8 TO 212 °F
<b>OTHER REQ.</b>	AS3579 CONFORMS	<b>MEDIUM</b>	Water
<b>PORT SIZE</b>	FULL		
<b>TRIM</b>	BRONZE		
<b>NOTES</b>	-		
<b>OTHER</b>	PAINTING: - *FBE (FUSION BONDED EPOXY) FBE-CI-01		

**DIMENSIONS (MM) & WEIGHT (KG)**

Inch	DN	L	i	g	O	C	t	f	n-ø	H	Weight
12"	300	356	300	370	460	406.4	32	4	12-26	1009	315

Dimensions in millimeters

Wedge Gate Valve, Model SL601-16 NPS 12" (DN300), HWOP, Table E, RF, BBOSY, Rising stem	<b>ORDER N°/ DWG N°</b>	XXXXXX-99	<b>APPROVED</b>	B.T.
	<b>REV.</b>	00	<b>CHECKED</b>	S.Q.
<b>Australian Pipeline Valve</b>			<b>DRAWN</b>	C.C.

<b>GENERAL SERVICE APPLICATION</b>	Cast Iron/Ductile Iron surfaces
<b>SCOPE</b>	Standard level protection against weathering, brackish water, salt spray, mild acids, alkaline solutions. Resistance to solvents. Good electrical insulation.
<b>TEMPERATURE RESISTANCE</b>	-29°C ~ 180°C
<b>PRELIMINARY SURFACE PREPARATION</b>	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.
<b>PROTECTION OF UNPAINTED PARTS</b>	Paint prior to assembly internal & external.
<b>FINAL SURFACE PREPARATION</b>	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.
<b>PAINT APPLICATION</b>	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.

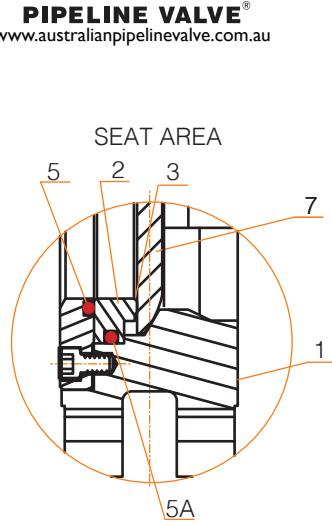
NO. OF COATS	TYPE OF PROCESS	TYPE	FILM THICKNESS
Body	Fusion Bonded Epoxy Powder RAL 5005 Light Blue	Anti-Corrosive self curing. Impact resistance (N.cm):500 Bending Test: 2 mm	250 $\mu\text{m}$
TOTAL DRY FILM THICKNESS:			250 $\mu\text{m}$

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

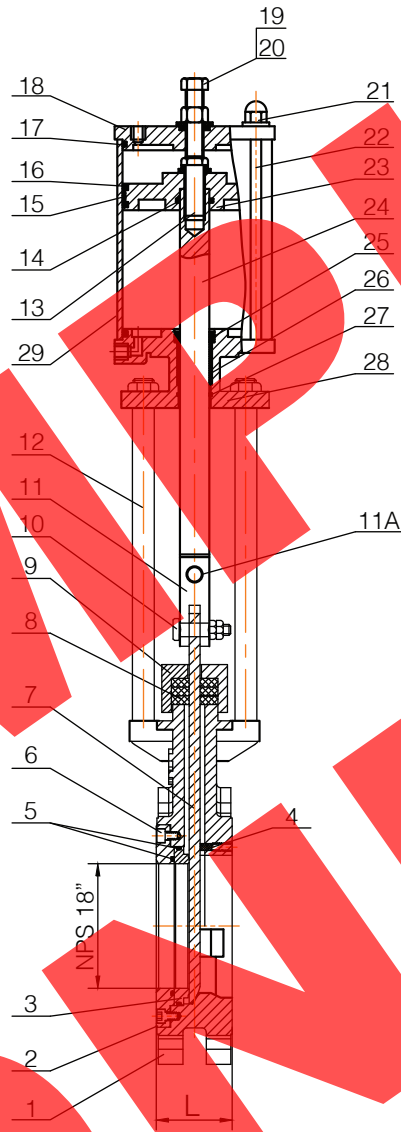
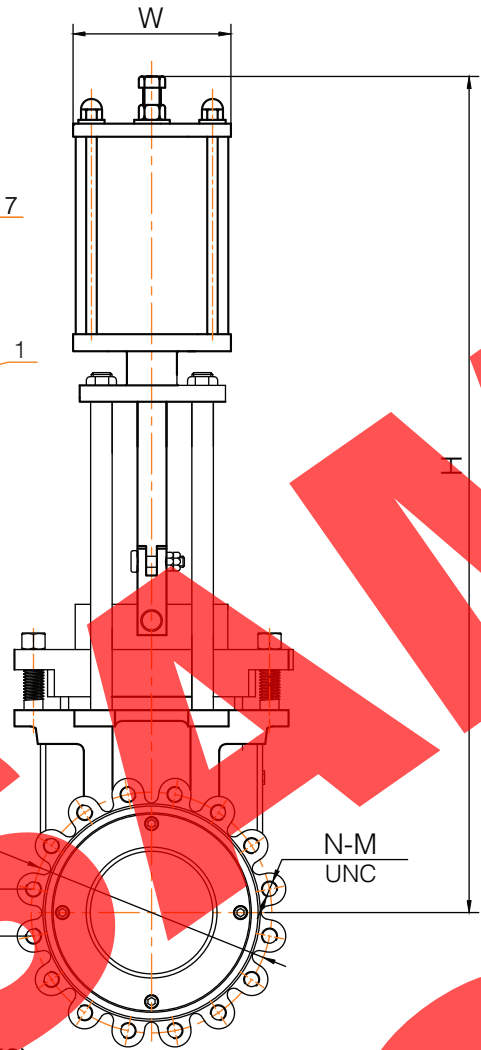
Rev.	Date	Remarks	Issued by:
1	Nov 16th 2018	Second Issue	GP



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PREFERRED FLOW DIRECTION →



**BILL OF MATERIALS**

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A216 WCB+FEB	-
2	SEAT RETAINER PLATE	Q235	-
3	SEAT	SS304+HCR	SELF COMPENSATING
4	ADJUSTABLE JAW	316/PTFE	-
5	O-RING	NBR	(1)
5A	O-RING	NBR	(2)
6	SOCKET HEAD CAP SCREW	SS304	-
7	GATE	SS304+HCR	-
8	PACKING	PTFE+SILICON	6 ROWS
9	GLAND	ASTM A216 WCB+FBE	-
10	PIN	SS304	-
11	CONNECTING JOINT	SS304	-
11A	CONNECTION PIN	SS304	-
12	PILLAR	SS304	-
13	BOLT	SS304	-
14	O-RING	NBR	-
15	GUIDE SEAT	PTFE	-
16	O-RING	NBR	-
17	O-RING	NBR	-
18	UPPER CYLINDER COVER	ALUMINIUM ALLOY	-
19	BOLT	SS304	-
20	NUT	SS304	-
21	NUT	SS304	-
22	CONNECTION ROD	SS304	-
23	PISTON	ASTM A102	-
24	PISTON SHAFT	SS304	-
25	Y-RING	NBR	-
26	BEARING	COMPOSITE MATERIAL	-
27	O-RING	NBR	-
28	LOWER CYLINDER COVER	ALUMINIUM ALLOY	-
29	CYLINDER	ALUMINIUM ALLOY PTFE LINED/ Q235+HCR	-
30	NUT	SS304	-

(1) ENERGISES GATE & COMPENSATES WEAR

(2) SEALS SEAT RETAINER PLATE

<b>RATING</b>	1000 kPa BODY 700 kPa ON SEAT	<b>TEST PRESSURE</b>	
<b>DESIGN &amp; MFG.</b>	MSS SP81	<b>SHELL HYDRO</b>	<b>SEAT HYDRO</b>
<b>PRESS-TEMP RATING</b>	ASME 125 ISO 7005-1	1.5 Mpa   217 Psi	1.1 Mpa   159 Psi
<b>FACE TO FACE DIM.</b>	MSS SP81/ASME B16.10	<b>SEAT AIR</b>	<b>BACKSEAT</b>
<b>END DIMENSION</b>	ASME B16.5	Mpa   Psi	Mpa   Psi
<b>END CONNECTION</b>	FULLY LUGGED & TAPPED 125 CLASS	<b>TEMPERATURE</b>	
<b>TEST &amp; INSPECTION</b>	MSS SP-81/ISO 5208	-4 TO 100 °C	24.8 TO 212 °F
<b>MARKING</b>	MSS SP-25	<b>MEDIUM</b>	Water
<b>OTHER REQ.</b>	IF SOLIDS IN MEDIA LARGER ACTUATOR MAYBE REQUIRED		
<b>NOTES</b>	METAL SEAT LEAKAGE 40CC/MINUTE/INCH (@275kPa)(ICC=16 DROPS)		
<b>TRIM</b>	304SS + HCR FULL PORT		
<b>NOTES</b>	AIR SUPPLY ACTUATOR 344kPa (50PSI) MIN, 089kPa (100PSI) MAX		
<b>OTHER</b>	PAINTING: - FBE (FUSION BONDED EPOXY) FBE-CI-01		

**DIMENSIONS (MM) & WEIGHT (KG)**

Inch	DN	L	H	W	D	N-M	Weight
18"	450	89	1930	400	577.9	16-1/18-7	

Dimensions in millimeters

Knife Gate Valve, OSY, Model ADC-125CPP-DN450 ASME 125 Class, Semi Lugged, Pneumatic Actuator, Double Acting <b>Australian Pipeline Valve - Flowturn</b>	<b>ORDER N° / DWG N°</b>	XXXXXX-99	<b>APPROVED</b>	B.T.
	<b>REV.</b>	00	<b>CHECKED</b>	S.Q.
			<b>DRAWN</b>	C.C.

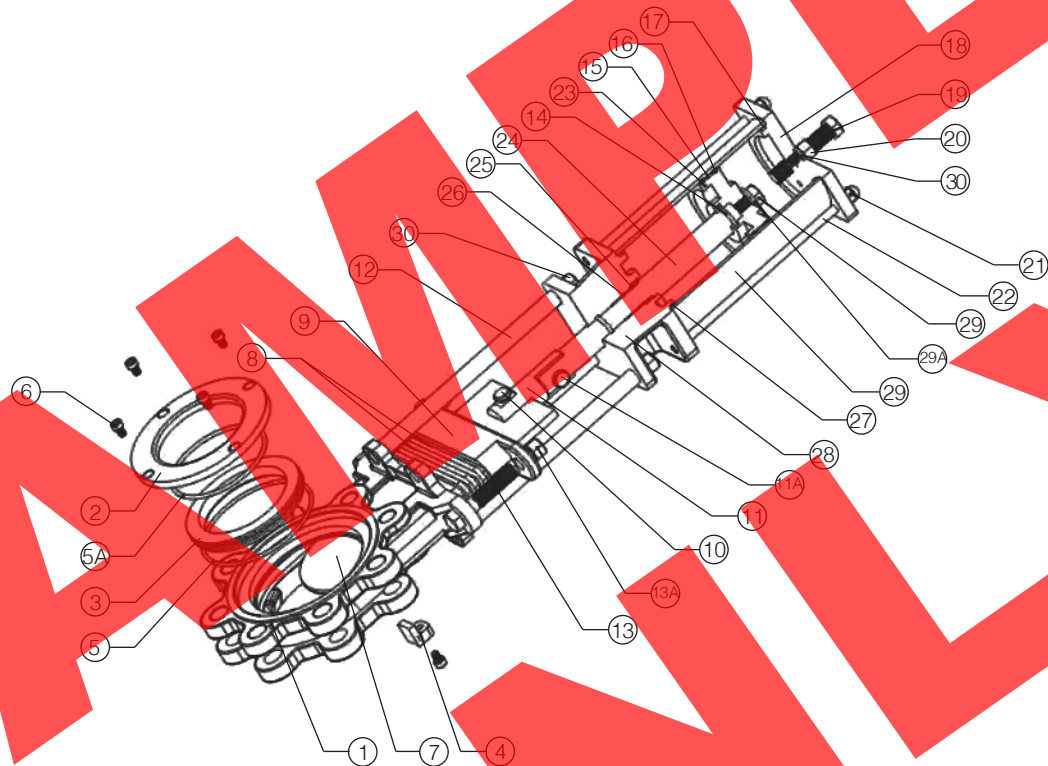




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### KNIFE GATE VALVE - DC SERIES TORQUE & CV

Material	Rating	Item	Valve Size NB (mm)																
			25	40	50	65	80	100	150	200	250	300	350	400	450	500	600	750	
METAL TO METAL	150# E	NUMBER OF TURN TO OPEN			18.0	22.0	20.0	25.4	31.5	41.8	51.6	49.3	55.6	61.9	69.8	77.8	93.5		
		TORQUE NM (ft. LB)			6.78 (5)	8.13 (6)	9.49 (7)	14.91 (11)	23.05 (17)	40.67 (30)	65.08 (48)	97.907 (70)	132.87 (98)	154.56 (114)	222.35 (164)	303.70 (224)	393.19 (290)		
		FLOW FACTOR: Cv			210	360	560	1200	3500	5700	8600	11700	14700	18000	21600	25400	32800		
RUBBER	150# E	NUMBER OF TURN TO OPEN					20.0	25.4	31.5	41.8	51.6	49.3	55.6	61.9	69.8	77.8	93.5		
		TORQUE NM (ft. LB)					10.847 (8)	17.626 (13)	27.116 (20)	46.098 (34)	108.47 (80)	109.82 (81)	135.58 (100)	184.39 (136)	244.05 (180)	303.70 (224)	393.19 (290)		
		FLOW FACTOR: Cv					627	1380	4000	6510	9300	12400	15600	18900	22500	26000	34000		

This is a ready reckoner guide only. Data varies according to model variation.

NBR/EPDM seated knife gate valves are bi-directional with zero leakage 10 bar/150 PSI in the preferred direction and limited tightness in the non-preferred direction at low pressure. For metal & PTFE seated, refer leakage rate designated.

### REPLACEABLE SEATS

Seats in Flowturn knife gate valves are backed by an o-ring to give the seat a self-compensating wear function. This results in excellent seat tightness and prolonged life cycle. When seats do wear and need replacement, maintenance to change the seats is easy.

### GATE DESIGN

Each gate is precision ground and hard chrome plated as a standard. This provides superior abrasion and corrosion resistance. The arc shape design of the bottom of the gate is particularly suitable to provide strong cutting force for pulp and media with suspended particulates such as process industries of pulp & paper, wastewater treatment, mining, sugar making and chemical processing.

### GUILDING WEDGES

Guilding wedges are point-located at the valve outlet, providing for a groove-free and smooth port. This reduces clogging or material build-up.

### EXTERNAL PACKING

Packing gland and packing are externally located, so packing can be adjusted or replaced without removing the valve from the pipeline.

### DOUBLE STEM BEARINGS

At the top of the yoke, our knife gate valves are equipped with two stem bearings for reduced torque and easy operation.

### ACTUATOR

Pneumatic actuators are sized generously but none the less assume only very minor particulates in fluid. Dirty Service may require an even larger actuator.

### KNIFE GATE VALVE - DC SERIES FLOW RATES

FLOW RATE (M<sup>3</sup>/H) FOR STANDARD PASSAGE - HEAD LOSS

Size (mm)	Size (inch)	Valve head losses (bar)				
		0.2	0.4	0.6	0.8	1
50	2"	93	134	165	185	206
65	2-1/2"	129	180	216	268	309
80	3"	191	309	371	422	494
100	4"	443	618	721	824	927
125	5"	700	927	1133	1339	1545
150	6"	927	1339	1545	1906	2060
200	8"	1597	2369	2987	3399	4017
250	10"	2472	3502	4429	5150	5665
300	12"	4120	5665	6798	7828	8755
350	14"	5335	7372	8730	9700	11640
400	16"	6693	9312	11640	13580	15520
450	18"	8342	12610	14550	16490	18430
500	20"	9700	14550	17460	19400	22310
600	24"	14550	19400	25220	29100	33950
700	28"	17460	29100	36860	42680	48500
800	32"	25220	38800	48500	52380	58200
900	36"	34920	50440	61110	67900	77600
1000	40"	46560	62080	77600	87300	97000
1200	48"	62080	87300	106700	121250	145500

### FLOW RATE (M<sup>3</sup>/H) WITH DEFLECTION CONES - HEAD LOSS

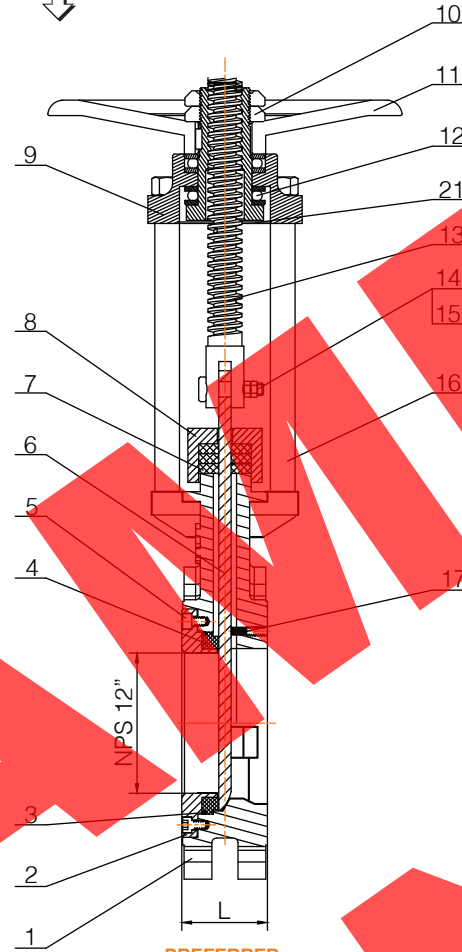
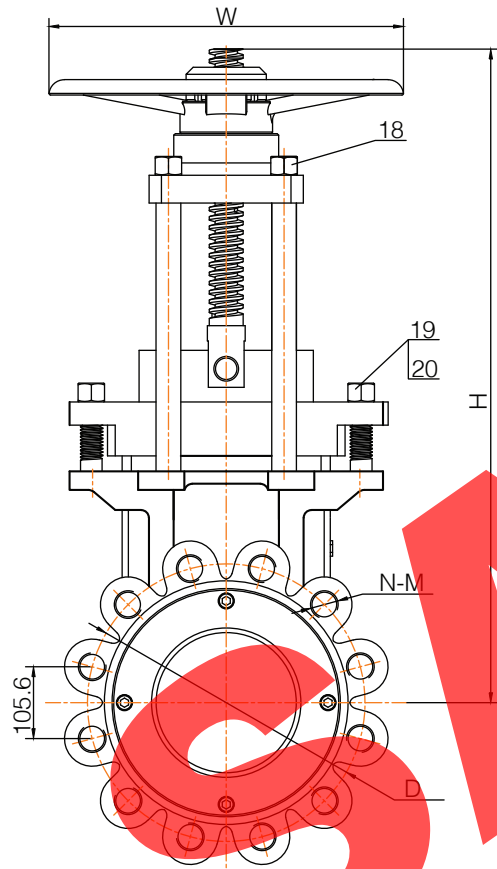
Size (mm)	Size (inch)	Valve head losses (bar)				
		0.2	0.4	0.6	0.8	1
50	2"	33	47	58	66	72
65	2-1/2"	54	74	93	101	118
80	3"	72	95	124	139	165
100	4"	144	185	247	288	330
125	5"	206	319	412	464	525
150	6"	340	464	577	628	721
200	8"	639	876	1030	1236	1442
250	10"	876	1288	1545	1648	1957
300	12"	1236	1751	2060	2575	3090
350	14"	1455	2037	2910	3104	3783
400	16"	2231	3492	4365	4947	4656
450	18"	3201	4850	5529	6208	7275
500	20"	4074	5820	7178	7954	9215
600	24"	5820	7760	9312	11155	12610

### KV VALUE

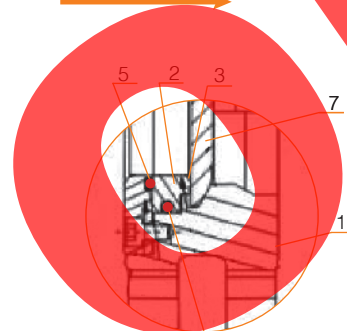
Size (mm)	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
Size (in)	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"	48"
Standard	206	309	494	927	1545	2060	4017	5665	8755	11640	15520	18430	22310	33950	48500	58200	77600	97000	145500
Deflector "V" cone	72	118	165	330	525	721	1442	1957	3090	3783	4656	7275	9215	12610	-	-	-	-	-



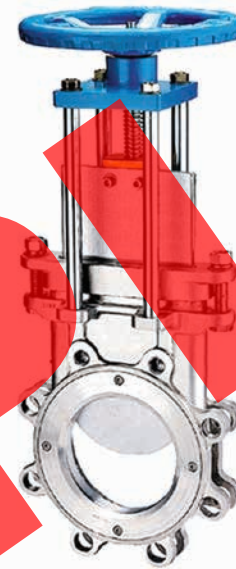
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PREFERRED FLOW DIRECTION



**SEAT AREA 5A**  
Metal primary + PTFE insert o-ring backed self compensating & replaceable.



**BILL OF MATERIALS**

NO.	PART NAME	MATERIAL	NOTES
1	BODY	ASTM A351 CF8M	-
2	SEAT RETAINER RING	SS316	-
3	SEAT BACKING O-RING	NBR	NON WETTED
3A	SEAT BACKING O-RING	NBR	NON WETTED
4	SEAT	PTFE (ENERGISED)	ENCAPSULATED
5	SOCKET HEAD CAP SCREW	SS304	-
6	GATE	SS316+HCR	-
7	GLAND PACKING	PTFE+SILICON	6 ROWS
8	GLAND	ASTM A351 CF8M	-
9	SQUARE PLATE	ALLUMINIUM ALLOY	-
10	HANDWHEEL NUT	45#+NI	FBE
11	HANDWHEEL	NODULAR CAST IRON	FBE
12	DRIVING SHAFT BEARINGS	GCR15	-
13	SHAFT	SS304	-
14	SPIT PIN	SS304	-
15	NUT	SS304	-
16	PILLAR	SS304	-
17	ADJUSTABLE JAW	316/PTFE	-
18	NUT	SS304	-
19	NUT	SS304	-
20	BOLT	SS304	-
21	NUT	SS316	-

<b>RATING</b>	1000 kPa CWP BODY 1000 kPa SEAT	<b>TEST PRESSURE</b>	
<b>DESIGN &amp; MFG.</b>	MSS SP81-2001/AS6401	<b>SHELL HYDRO</b>	<b>SEAT HYDRO</b>
<b>PRESS-TEMP RATING</b>	ISO 7005-1	1.5 Mpa   217 Psi	1.1 Mpa   159 Psi
<b>FACE TO FACE DIM.</b>	MSS SP81-2001/AS6401	<b>SEAT AIR</b>	<b>BACKSEAT</b>
<b>END DIMENSION</b>	AS2129 TABLE E	Mpa   Psi	Mpa   Psi
<b>END CONNECTION</b>	FF LUGGED	<b>TEMPERATURE</b>	
<b>TEST &amp; INSPECTION</b>	AS 6401/MSS SP81/ISO 5208	-4 TO 80 °C	24.8 TO 176 °F
<b>MARKING</b>	MSS SP-25	<b>MEDIUM</b>	
<b>OTHER REQ.</b>	CAN FIT AS4087 PN14/PN16 FLANGING		
<b>PORT SIZE</b>	FULL		
<b>TRIM</b>	PTFE SS/HCR METAL + PTFE SEAT		
<b>NOTES</b>	PTFE SEAT LEAK TIGHT TESTED @ 400 kPa ≥ 400 kPa RATED FROM 0 TO 4 CC*/INCH/MINUTE		

\* 1 CC = 16 DROPS

**DIMENSIONS (MM) & WEIGHT (KG)**

Inch	DN	L	H	W	D	N-M	Weight
12"	300	76	840	400	406	12-M24	75

Dimensions in millimeters

Knife Gate Valve, OS&Y Model SDC-EMMR-DN300 NPS 12" (DN300), AS2129 Table E, Semi Lugged, Handwheel Operated <b>Australian Pipeline Valve - Flowturn</b>	<b>ORDER N° / DWG N°</b>	XXXXXX-99	<b>APPROVED</b>	B.T.
	<b>REV.</b>	00	<b>CHECKED</b>	S.Q.
			<b>DRAWN</b>	C.C.



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**KNIFE GATE VALVE - DC SERIES TORQUE & CV**

Material	Rating	Item	Valve Size NB (mm)															
			25	40	50	65	80	100	150	200	250	300	350	400	450	500	600	750
METAL TO METAL	150# E	NUMBER OF TURN TO OPEN			18.0	22.0	20.0	25.4	31.5	41.8	51.6	49.3	55.6	61.9	69.8	77.8	93.5	
		TORQUE NM (ft. LB)			6.78 (5)	8.13 (6)	9.49 (7)	14.91 (11)	23.05 (17)	40.67 (30)	65.08 (48)	97.907 (70)	132.87 (98)	154.56 (114)	222.35 (164)	303.70 (224)	393.19 (290)	
		FLOW FACTOR: Cv			210	360	560	1200	3500	5700	8600	11700	14700	18000	21600	25400	32800	
RUBBER	150# E	NUMBER OF TURN TO OPEN					20.0	25.4	31.5	41.8	51.6	49.3	55.6	61.9	69.8	77.8	93.5	
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		FLOW FACTOR: Cv					627	1380	4000	6510	9300	12400	15600	18900	22500	26000	34000	

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**FLOW RATE (M<sup>3</sup>/H) WITH DEFLECTION CONES - HEAD LOSS**

Size (mm)	Size (inch)	Valve head losses (bar)				
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**KV VALUE**

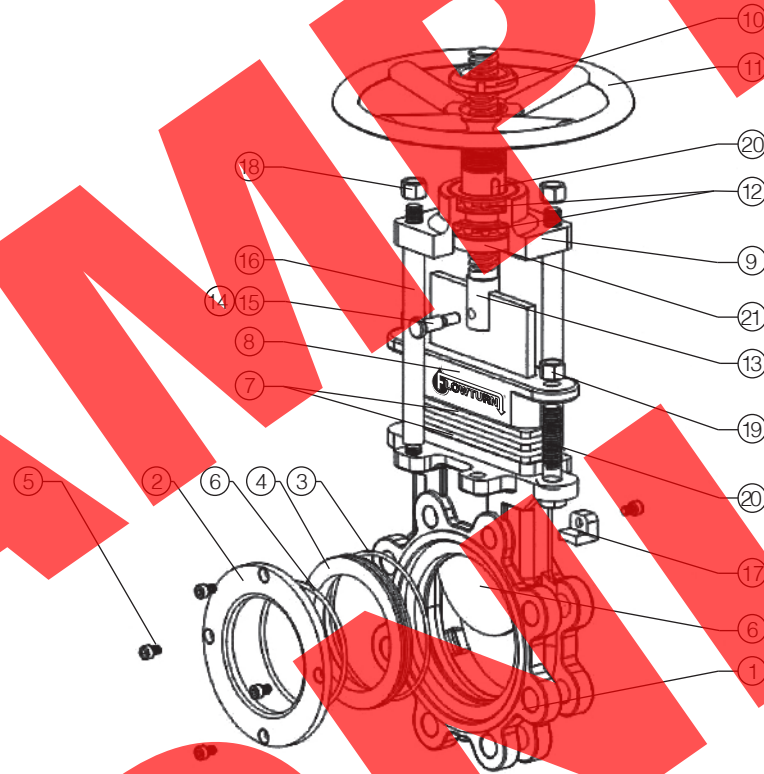
<b>Size (mm)</b>	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
<b>Size (in)</b>	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"	48"
<b>Standard</b>	206	309	494	927	1545	2060	4017	5665	8755	11640	15520	18430	22310	33950	48500	58200	77600	97000	145500
<b>Deflector "V" cone</b>	72	118	165	330	525	721	1442	1957	3090	3783	4656	7275	9215	12610	-	-	-	-	-

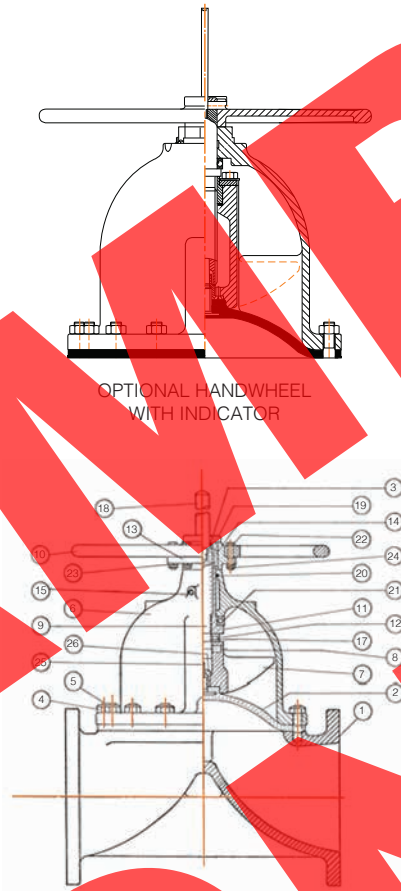
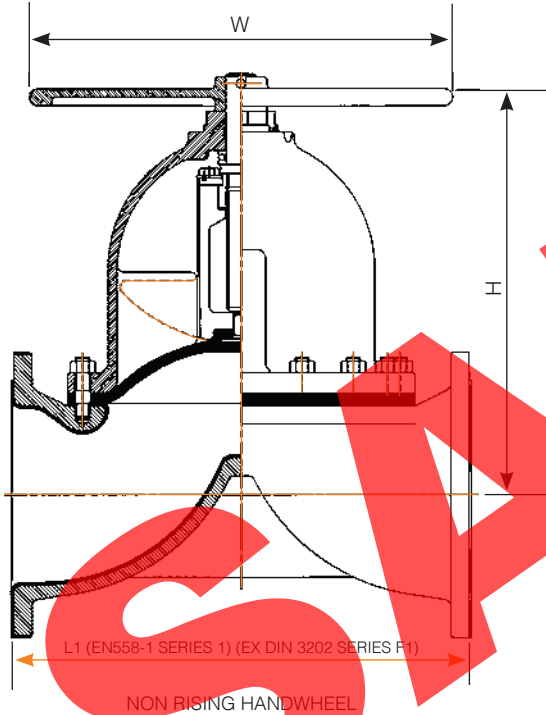


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EXPLODED VIEW





**BILL OF MATERIALS**

NO.	PART NAME	MATERIAL	NOTES
1	BODY	VARIOUS	-
2	DIAPHRAGM	ELASTOMER PTFE	-
3	O-RING	BUNA N	-
4	NUTS	STEEL	-
5	STUDS	STEEL	-
6	BONNET	CAST IRON	-
7	COMPRESSOR	CAST IRON	-
8	PIN	STAINLESS STEEL	-
9	SPINDLE	STEEL	-
10	HANDWHEEL	CAST IRON	-
11	BUSHING	BRASS	-
12	SCREW, SET	STEEL	-
13	HUB, HANDWHEEL	CAST IRON	-
14	KEY, HANDWHEEL	STEEL	-
15	FITTING LUBE	STEEL	-
17	COLLAR, STOP	STEEL	-
18	SPINDLE, EXTENSION, IND.	STAINLESS STEEL	-
19	NUT, BUSHING	BRASS	-
20	O-RING*	ELASTOMER	-
21	BEARING, BALL THRUST	STEEL	-
22	BOLT	STEEL	-
23	LOCKWASHER	STEEL	-
24	NUT	STEEL	-
25	KEY, TUBE NUT	BRASS	-
26	NUT, TUBE	BRASS	-

\* FOR SEALED BONNET ONLY

<b>RATING</b>	PN10~PN14 1000kPa~1400kPa CWP	<b>TEST PRESSURE</b>	
<b>DESIGN &amp; MFG.</b>	EN13397 (BS5156)	<b>SHELL HYDRO</b>	<b>SEAT HYDRO</b>
<b>PRESS-TEMP RATING</b>	EN1092-2/AS4087/AS4331.1	Mpa  Psi	Mpa  Psi
<b>FACE TO FACE DIM.</b>	TYPE 'A' EQUIVALENT EN558-1 SERIES 1&7	<b>SEAT AIR</b>	<b>BACKSEAT</b>
<b>END DIMENSION</b>	AS2129 D/E, AS4087 PN14, AS4331.1 PN10	Mpa  Psi	Mpa  Psi
<b>END CONNECTION</b>	AS2129 TABLE D, AS4087 PN14/PN16, ASA 125	<b>TEMPERATURE</b>	
<b>TEST &amp; INSPECTION</b>	EN1226-1 PN10 MSS SP88	°C	°F
<b>MARKING</b>	MSS SP-25	<b>MEDIUM</b>	
<b>OTHER REQ.</b>			
<b>PORT SIZE</b>	WEIR		
<b>TRIM</b>			
<b>NOTES</b>			
<b>OTHER</b>			

**DIMENSIONS (MM) & WEIGHT (KG)**

Inch	DN	Flanged Unlined				Flanged Rubber Lined				Flanged Glass Lined			
		H	L	L1	Weight	H	L	L1	Weight	H	L	L1	Weight
8"	200	495	521	600	152	498	527	600	154	496	523	600	153
10"	250	581	635	730	270	585	641	730	273	582	637	730	272
12"	300	679	749	850	360	683	755	850	365	-	-	-	-
14"	350	660	749	980	506	664	755	980	512	-	-	-	-

Dimensions in millimeters

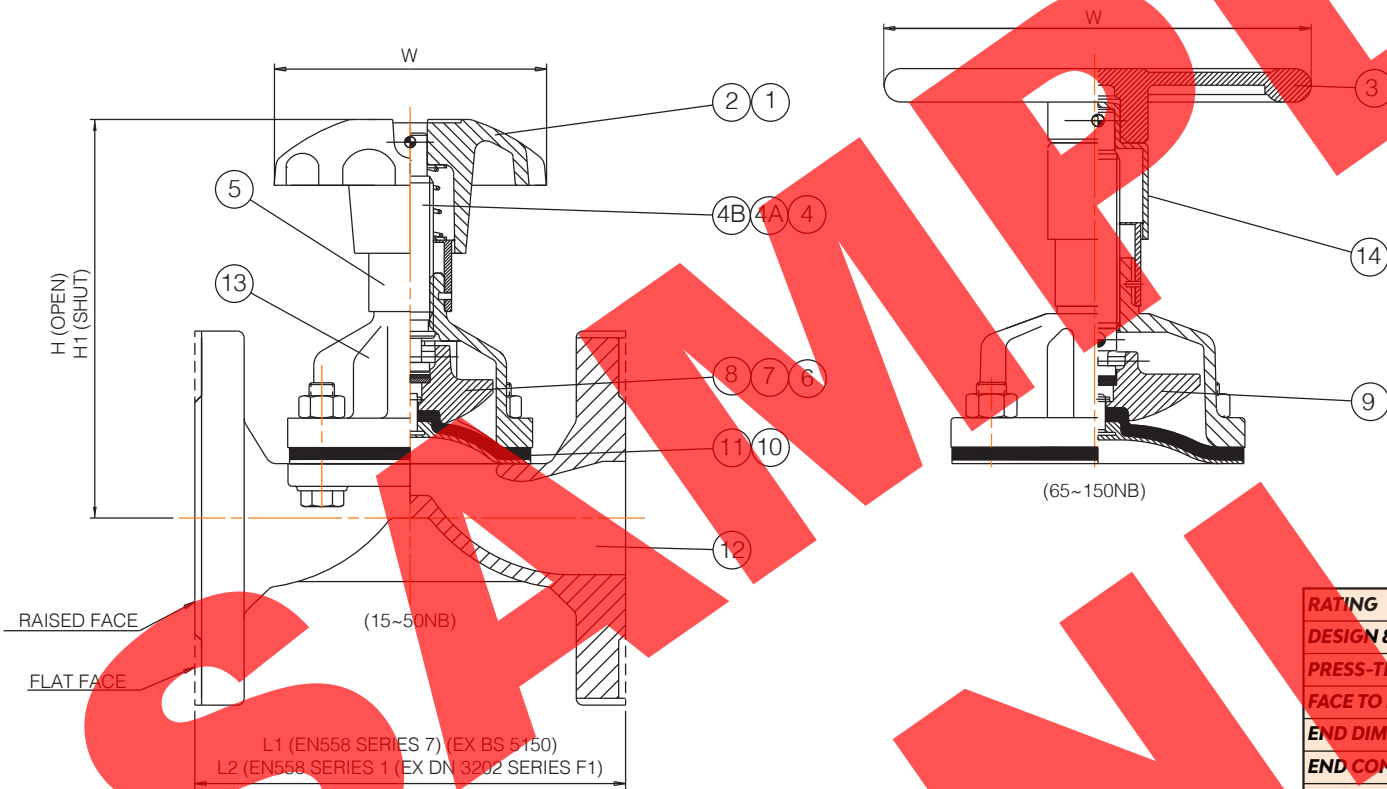
Diaphragm Valve, 'AP-A' Weir type NPS 8"~14" (DN200~DN350), Rising Handwheel	<b>ORDER N° / DWG N°</b>	XXXXXX-99	<b>APPROVED</b>	B.T.
	<b>REV.</b>	00	<b>CHECKED</b>	S.Q.
<b>Australian Pipeline Valve</b>			<b>DRAWN</b>	C.C.



FLOW PATH

DIAPHRAGM MATERIALS

10	Natural Rubber (NR)
20	EPDM Rubber
30	Butyl Rubber (IIR)
40	Nitrile Rubber (NBR)
50	Neoprene Rubber (CR)
60	Hypalon Rubber (CSM)
70	Viton Rubber (FKM/FPM)
92	PTFE/EPDM backed
93	PTFE/Butyl backed
96	PTFE/Hypalon backed
97	PTFE/Viton backed
98	PTFE/Silicon backed
9D	TFM/PVDF/EPDM (3 PCE)
9R	TFM/PVDF/EPDM (3 PCE with titanium connector)
NB: Vacuum grade diaphragms available on request	



**BILL OF MATERIALS**

NO.	PART NAME	MATERIAL	SIZE
1	HANDWHEEL	ABS	15-50NB
2	HANDWHEEL	CAST IRON	15-50NB
3	HANDWHEEL	CAST IRON	65-150NB
4	SPINDLE	MILD STEEL	15-150NB
4A	SPINDLE	304SS	15-150NB
4B	SPINDLE	316SS	15-150NB
5	BONNET SLEEVE	POLYPROPYLENE	15-150NB
6	COMPRESSOR	MILD STEEL	15-20NB
7	COMPRESSOR	SILICON ALUM.	15-50NB
8	COMPRESSOR	CAST IRON	25-150NB
9	COMPRESSOR	CAST IRON	65-150NB
10	DIAPHRAGM	RUBBER	15-150NB
11	DIAPHRAGM	RUBBER/PTFE	15-150NB
12	BODY	CAST IRON	15-150NB
12	BODY	S.G. IRON	15-150NB
12	BODY	STAINLESS STEEL	15-150NB
12	BODY	GUNMETAL	15-150NB
12	BODY	CAST STEEL	15-150NB
13	BONNET	CAST IRON	15-150NB
14	HANDWHEEL BOSS	POLYPROPYLENE	65-150NB
15	FASTENERS	ISO GRADE 8.8	15-150NB

<b>RATING</b>	PN10~PN16 1000kPa~1600kPa CWP	<b>TEST PRESSURE</b>	
<b>DESIGN &amp; MFG.</b>	EN13397 (BS5156)	<b>SHELL HYDRO</b>	<b>SEAT HYDRO</b>
<b>PRESS-TEMP RATING</b>	EN1092-2/AS4087/AS4331.1	Mpa  Psi	Mpa  Psi
<b>FACE TO FACE DIM.</b>	TYPE 'A' EQUIVALENT EN558-1 SERIES 1&7	<b>SEAT AIR</b>	<b>BACKSEAT</b>
<b>END DIMENSION</b>	AS2129 D/E, AS4087 PN14/PN16, AS4331.1 PN10/PN16	Mpa  Psi	Mpa  Psi
<b>END CONNECTION</b>	AS2129 TABLE D AS4087 PN14/16 ASA 125	<b>TEMPERATURE</b>	
<b>TEST &amp; INSPECTION</b>	EN1226-1 PN10 MSS SP88	°C	°F
<b>MARKING</b>	MSS SP-25	<b>MEDIUM</b>	
<b>OTHER REQ.</b>			
<b>PORT SIZE</b>	WEIR		
<b>TRIM</b>	TEFLON (WETTED)		
<b>NOTES</b>			
<b>OTHER</b>			

**DIMENSIONS (MM) & WEIGHT (KG)**

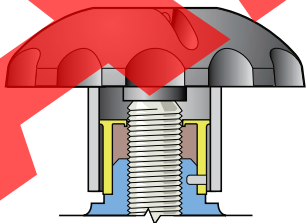
Inch	DN	H	H1	L1	L2	W	Weight
1/2"	15	100	93	108	130	62	1.9
3/4"	20	91	85	117	150	62	2.1
1"	25	108	97	127	160	80	2.8
1 1/4"	32	143	129	146*	180	120	3.4
1 1/2"	40	157	140	159	200	120	4.6
2"	50	175	151	190	230	120	6.8
2 1/2"	65	226	194	216	290	170	8.7
3"	80	243	208	254	310	230	11.5
4"	100	308	262	305	350	280	19.5
5"	125	388	322	356	400	280	28.6
6"	150	442	367	406	480	368	38.6

Dimensions in millimeters

\*L1=150mm in PN16 flanging

Diaphragm Valve, 'AP-A' Weir type, PTFE Diaphragm NPS 1/2"~6" (DN15~DN150), Rising Handwheel, Unlined	<b>ORDER N° / DWG N°</b>	XXXXXX-99	<b>APPROVED</b>	B.T.
	<b>REV.</b>	00	<b>CHECKED</b>	S.Q.
	<b>Australian Pipeline Valve</b>		<b>DRAWN</b>	C.C.





**LUBRICATION**

Bonnet assembly lubricated for long life.

**DIAPHRAGM MATERIALS**

10	Natural Rubber (NR)
20	EPDM Rubber
30	Butyl Rubber (IIR)
40	Nitrile Rubber (NBR)
50	Neoprene Rubber (CR)
60	Hypalon Rubber (CSM)
70	Viton Rubber (FKM/FPM)
92	PTFE/EPDM backed
93	PTFE/Butyl backed
96	PTFE/Hypalon backed
97	PTFE/Viton backed
98	PTFE/Silicon backed
9D	TFM/PVDF/EPDM (3 PCE)
9R	TFM/PVDF/EPDM (3 PCE with titanium connector)
NB: Vacuum grade diaphragms available on request	

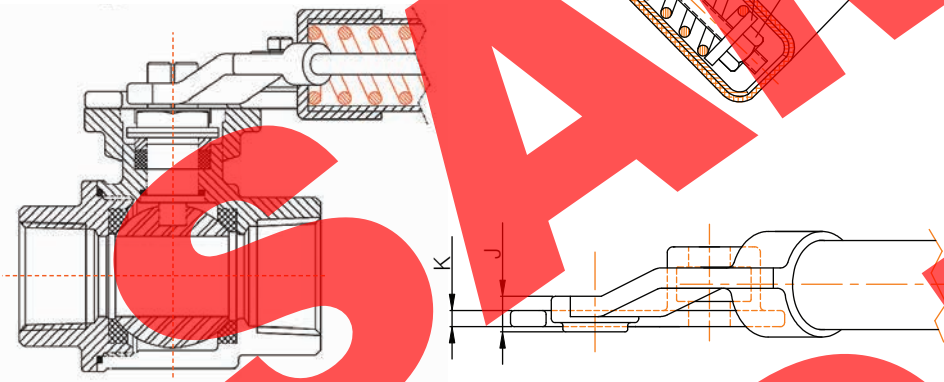
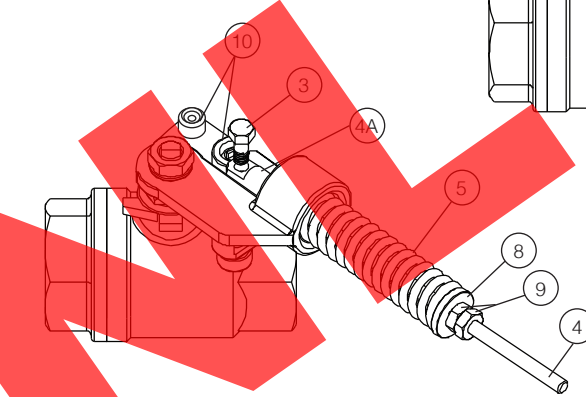
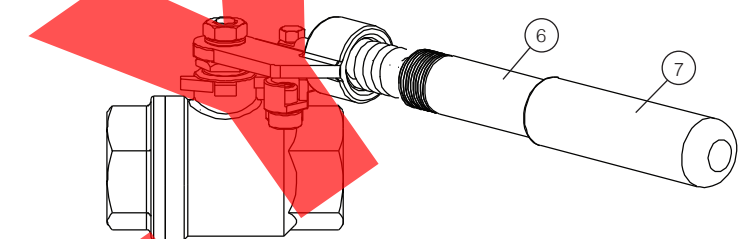
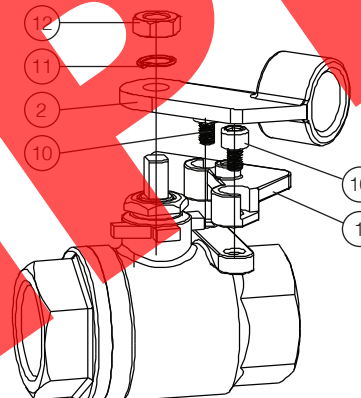
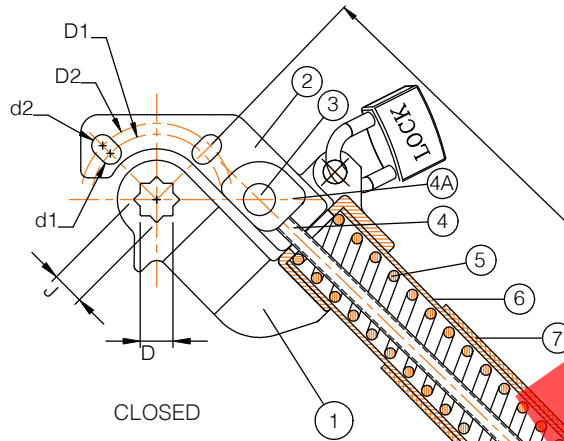


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**BILL OF MATERIALS**

NO.	PART NAME	MATERIAL	NOTES
1	HANDLE HEAD	ASTM A351 CF8	INTEGRAL LOCK LUG
2	ANCHOR	ASTM A351 CF8	INTEGRAL LOCK LUG
3	ANCHOR PIN	SS304	-
4	SPRING ROD	SS304	-
4A	SPRING ROD ANCHOR	SS304	-
5	SPRING	SS301	55CrSi
6	HANDLE EXTENSION	SS304	-
7	SLEEVE	PVC	-
8	WASHER	SS304	-
9	HEX NUT	SS304	-
10	SOCKET HEAD SCREWS	SS304	-
11	WASHER	SS304	-
12	NUT	SS304	-
13	LOCK DEVICE	SS304	-



**DIMENSIONS & TORQUE**

Kit Part No.	L	d1	d2	ØH	J	K	D1 (ISO 5211)	D2 (ISO 5211)	Torque	Weight
S71-504-00-Z	170	6.5	6.5	9	6.0	4.0	F03	F04	15 Nm	.38
S71-507-00-Z	207	6.5	6.5	9	6.0	4.0	F03	F04	20 Nm	.39
S71-507-01-Z	220	6.2	7.2	11	9.5	5.0	F04	F05	20 Nm	.39
S71-508-00-Z	275	6.2	7.2	11	9.5	5.0	F04	F05	30 Nm	.55
S71-508-01-Z	280	7.2	9.2	14	10.3	5.0	F05	F07	30 Nm	1.22
S71-509-01-Z	450	7.2	9.2	14	10.3	5.0	F05	F07	55 Nm	4.68

Dimensions in millimeters



Operating torque should be sized according to valve torque, media, pressure and safety.

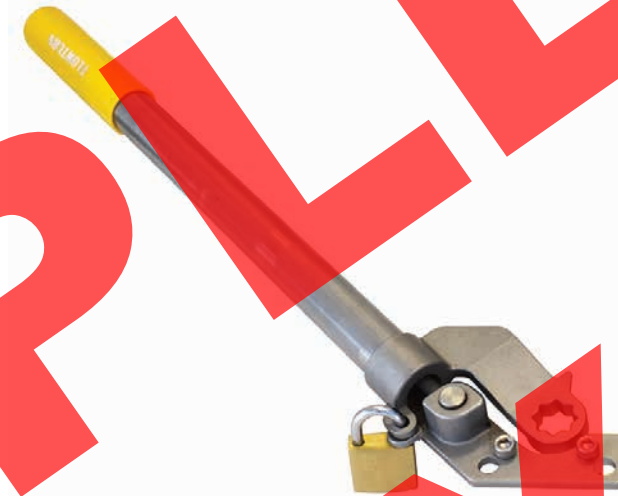
Depending on the ball valve torque, adjust the nut so that the spring compression increases the torque, but the torque should not exceed the maximum stem torque (MAST)

<b>MATERIALS</b>	ALL STAINLESS STEEL
<b>NOTES</b>	LOCKABLE ISO 5211 MOUNT
<b>OTHER</b>	

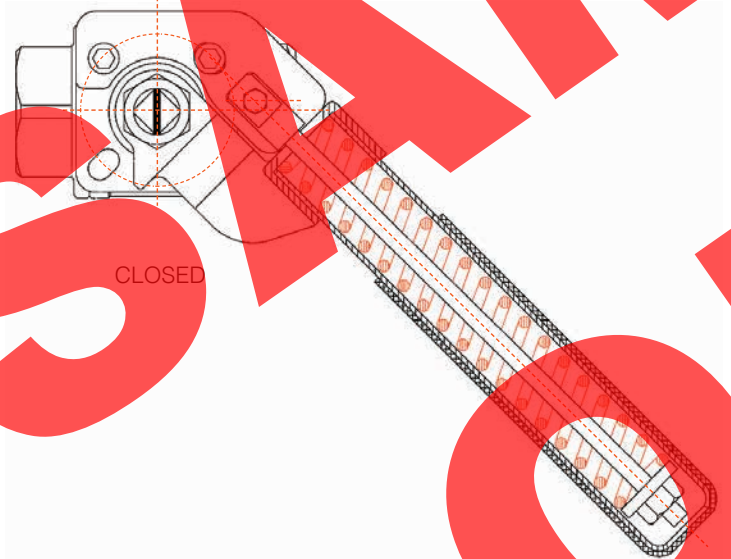
Spring Return Handle (Deadman Lever), Kits S71(-Z) Series	<b>ORDER N° / DWG N°</b>	XXXXXX-99	<b>APPROVED</b>	B.T.
	<b>REV.</b>	00	<b>CHECKED</b>	S.Q.
<b>Australian Pipeline Valve</b>			<b>DRAWN</b>	C.C.



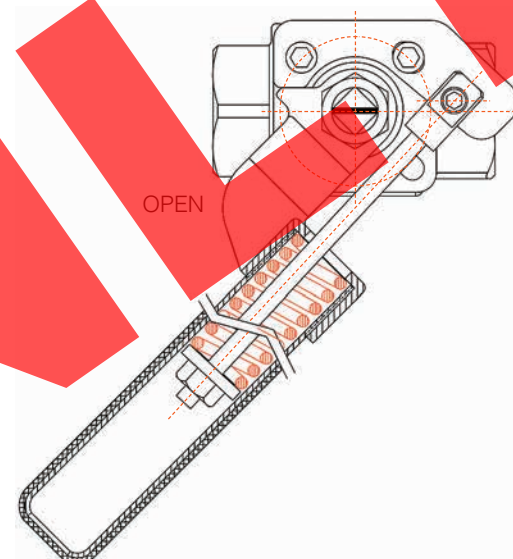
S71-504-508



S71-509



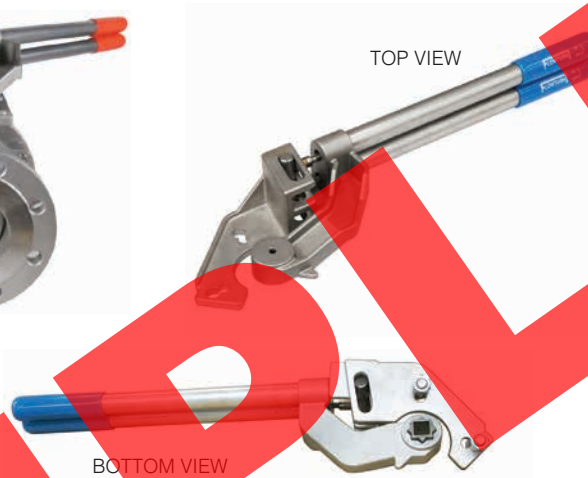
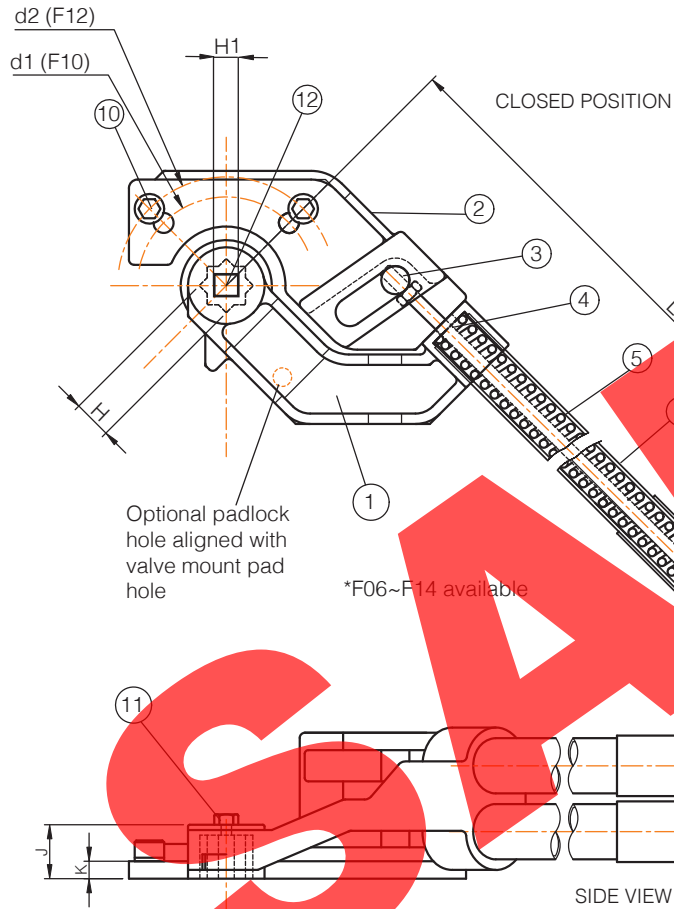
CLOSED



OPEN



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**BILL OF MATERIALS**

NO.	PART NAME	MATERIAL	NOTES
1	HANDLE HEAD	ASTM A351 CF8	-
2	ANCHOR	ASTM A351 CF8	-
3	ROTARY SHAFT	SS304	-
4	SPRING ROD	SS304	-
5	SPRING	60Si2MN SPRING STEEL	-
6	HANDLE EXTENSION	SS304	-
7	SLEEVE	PVC	-
8	WASHER	SS304	-
9	ADJUSTABLE HEX NUT	SS304	-
10	SOCKET HEAD SCREW	SS304	-
11	HEX BOLT	SS304	-
12	DRIVE BUSH INSERT	SS304	17MM ID SQUARE

**DIMENSIONS & TORQUE**

L	d1	d2	H	H1	J	K	ISO	Torque	Weight
520	102 (F10)	125 (F12)	22	17	28	10	F10 & F12	100 Nm	4.68

Dimensions in millimeters

- All components of lever are stainless steel
- Operating torque should be sized according to valve torque, media, pressure and safety
- Can be fitted to 1P, 2P, 3P valve
- Also available in ISO F06 to F14



Note: Depending on the ball valve torque, adjust the nut so that the spring compression increases the torque, but the torque should not exceed the maximum stem torque (MAST)

<b>MATERIALS</b>	ALL STAINLESS STEEL
<b>NOTES</b>	ISO 5211 MOUNT F10 & F12
<b>OTHER</b>	

Spring Return Handle Kit (Deadman Lever) Kit S71-510-00	<b>ORDER N° / DWG N°</b>	XXXXXX-99	<b>APPROVED</b>	B.T.
	<b>REV.</b>	00	<b>CHECKED</b>	S.Q.
<b>Australian Pipeline Valve</b>			<b>DRAWN</b>	C.C.

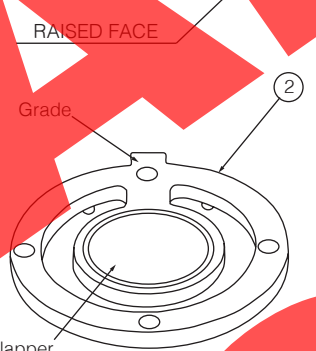
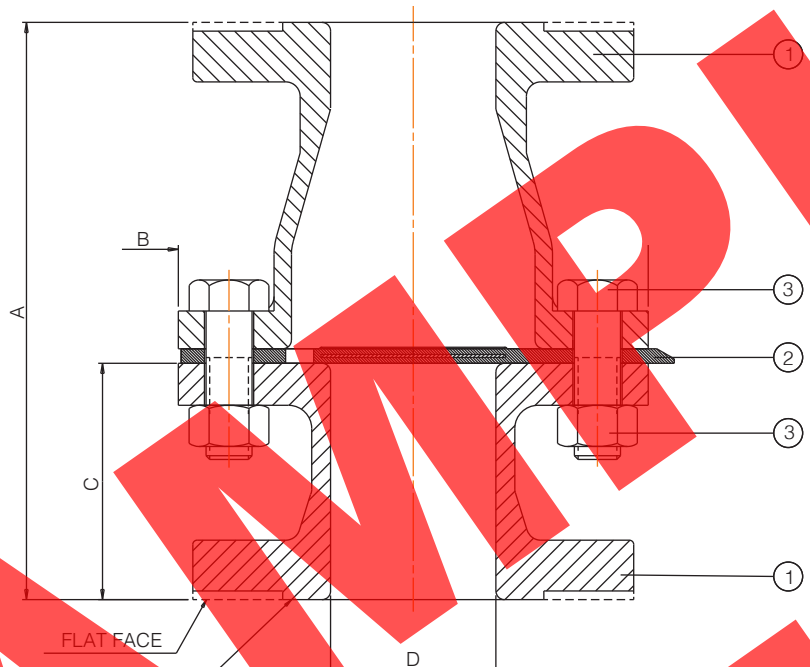


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**UNIFLO®**



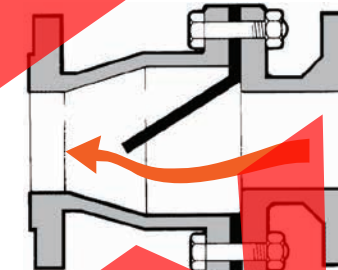
1. Indications - The indications fused in the piece ensure correct installation.
2. Inside diameter - Total step design to ensure good flow and minimum turbulence, protecting delicate fluids.
3. Flapper - Lubricated and isolated from the environment by the sealing edge of the yellow indicator. This protects it from external contamination.
4. Fixing Elements - Its design achieves a strong reinforced diaphragm, providing total hermeticity, safety and long life. An appropriate diaphragm is offered for each fluid, through a wide variety of synthetic and natural rubbers.
5. Seal - The Flapper is also used as a seal, sealing the union of flanges of the body and the seat, avoiding losses and reducing maintenance.
6. Finish - Phosphatised and epoxy paint reduce the need to paint and the effects of atmospheric corrosion.



DISC GRADE		
Grade	Applications	Temperature
FKM (Fluoroelastomer)	Sulfur cured. High temperature gas concentrated acid, aromatic solvents, low concentrated chlorine solutions, ozone and unleaded petroleum.	-5°C to 150°C
Butyl (Isobutylene isoprene)	Sulphur cured with carbon black reinforcement. Diluted acids and alkalis, drinking water and abrasive applications such as phosphoric acid in low concentration.	-30°C to 100°C

**BILL OF MATERIALS**

NO.	PART NAME	MATERIAL	NOTES
1	BODY	CAST IRON	210 Gr. FG 260
2	DISC	BUTYL 'B'	STEEL PLATE REINFORCED
3	BOLTS & NUTS	STEEL Gr. 4.6/4	-
4	PAINT	MODIFIED ALKYD RESIN	MACHINE VARNISH
5	LINING	UNLINED	-



<b>RATING</b>	7000 kPa CWP	<b>TEST PRESSURE</b>	
<b>DESIGN &amp; MFG.</b>	BS EN 1074-2 BS5158	<b>SHELL HYDRO</b>	<b>SEAT HYDRO</b>
<b>PRESS-TEMP RATING</b>	ASME B16.34	1.05 Mpa	152.29 Psi
<b>FACE TO FACE DIM.</b>	NX EQUIVALENT	0.77 Mpa	111.68 Psi
<b>END DIMENSION</b>	AS2127 TABLE D/ AS4087 PN10/125LB	<b>SEAT AIR</b>	<b>BACKSEAT</b>
<b>END CONNECTION</b>	FLAT FACE (SMOOTH FINISH)	Mpa	Psi
<b>TEST &amp; INSPECTION</b>	100% DRIP TIGHT	<b>TEMPERATURE</b>	
<b>MARKING</b>	MSS SP-25	0 TO 100 °C	32 TO 212 °F
<b>OTHER REQ.</b>	UNLINED	<b>MEDIUM</b>	WATER, ETC.
<b>PORT SIZE</b>	FULL PORT		
<b>TRIM</b>			
<b>NOTES</b>	+ 0.35 BAR FLOW REVERSAL		
<b>OTHER</b>	VERTICAL OR HORIZONTAL (UPWARDS) SERVICE		

**DIMENSIONS (MM) & WEIGHT (KG)**

Inch	DN	A	D	B	C	Weight
1"	25	151	32	124	64.5	4
1 1/2"	40	180	44	149	75.5	7
2"	50	198	57	162	80.5	8.5
2 1/2"	65	238	70	216	85.0	14
3"	80	259	85	216	91.0	20
4"	100	348	108	295	114.0	34
6"	150	400	159	327	106.0	56
8"	200	500		396		103
10"	250	600		500		190
12"	300	700		554		310

Dimensions in millimeters

Non Return Check Valve, Model S- NX, Unlined, NPS 1"~12" (DN25~DN300),	<b>ORDER N°/ DWG N°</b>	XXXXXX-99	<b>APPROVED</b>	B.T.
	<b>REV.</b>	00	<b>CHECKED</b>	S.Q.
<b>Australian Pipeline Valve</b>			<b>DRAWN</b>	C.C.