



**FIRE POINT**

FIRE PIPE MANUFACTURING

MANUFACTURING SPECIFICATIONS & COMPANY INFORMATION

**2020**

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This document was compiled with the assistance of Bluescope, Orrcon Steel and Metal Corp, AAP Industries and CoverForce3LP. Fire Hydrant Pipe Specifications were directly extracted from the supplier's own Product Catalogue March 2020. Fittings specifications were extracted from AAP Industries PDF catalogues. The content in this document is for information purposes only. It is a general guide to pipes and fittings and is not intended for technical purposes. The information in this document is the latest information we have been provided as of the 14th of March 2020. Information in this document is subject to change without notice. While Fire Point maintains the highest quality standard, Fire Point is not liable for any direct, indirect, incidental, consequential or punitive damages arising from the use of the information contained in this catalogue. All references for the information extracted have been included below.

- <https://www.orrconsteel.com.au/sites/default/files/2020-03/Orrcon-National-Product-Catalogue.pdf>
- <https://www.aapindustries.com.au/AAP-Catalogue-Sections/AAP-S1-Peal-Steel-Fittings-S.pdf>
- <https://www.aapindustries.com.au/AAP-Catalogue-Sections/AAP-S2-Galvanised-Malleable-Iron-Pipe-Fittings-S.pdf>
- <https://www.aapindustries.com.au/AAP-Catalogue-Sections/AAP-S3-Buttweld-S.pdf>
- <https://www.aapindustries.com.au/AAP-Catalogue-Sections/AAP-S4-Flanges-S.pdf>

# 1.0 ABOUT US

Conveniently located in the middle of Slacks Creek, Fire Point is one of the largest Fire Pipe Manufacturing facilities in Queensland. Our company mission and goal is to ensure that our company grows with consideration to the sustainability of the manufacturing and construction industry. This consideration extends to all stakeholders involved in our business including, clients, employees, suppliers, the local and Australian economy, the environment, the public and many more.

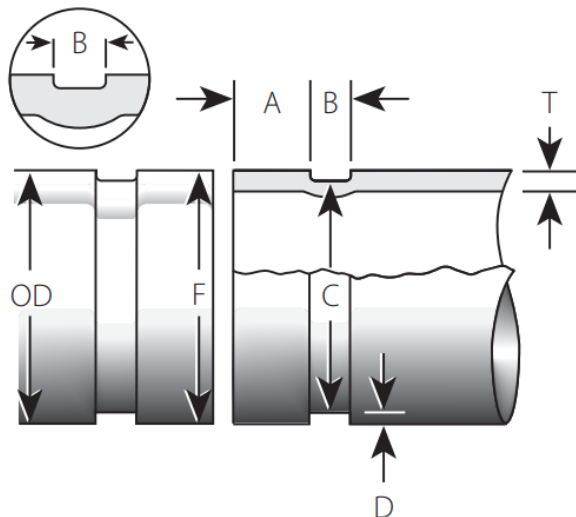
Our fabrication team has over 15 years of experience fabricating fire system pipes in Australia. Our large operation boasts 3 separate production lines to ensure every job has the attention it needs while also delivering quality manufacturing on time.

# 2.0 COMPLIANCE

We understand that any materials used in the Services industry must be fully compliant with Building Codes Australia outlined by the Australian Building Codes Board (ABCB). In addition, from a manufacturing perspective, we ensure that our products are compliant with the Australian Standards for manufacturing, installation, and use for fire sprinkler systems.

To understand more about the compliance of the products we offer, please find it in the materials specifications section of this catalogue or contact us if you have any questions.

# 3.0 ROLL GROOVING SPECIFICATIONS

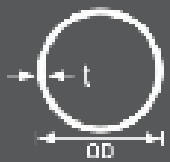


- <sup>1</sup> Outside diameter: The outside diameter of roll grooved pipe shall not vary more than the tolerance listed.
- <sup>2</sup> Gasket seat "A": The pipe surface shall be free from indentations, roll marks and projections from the end of the pipe to the groove to provide a leak-tight seal for the gasket. All loose paint, scale, dirt, chips, grease and rust must be removed. It continues to be Victaulic's first recommendation that pipe be square cut. When using beveled pipe, contact Victaulic for details. Gasket seat "A" is measured from the end of the pipe.
- <sup>3</sup> Groove width "B": The bottom of the groove shall be free of loose dirt, chips, rust and scale that may interfere with proper coupling assembly.
- <sup>4</sup> Groove diameter "C": The groove must be of uniform depth for the entire pipe circumference. The groove must be maintained within the "C" diameter tolerance listed.
- <sup>5</sup> Groove depth "D": For reference only. Groove must conform to the groove diameter "C" listed.
- <sup>6</sup> Nominal allowable pipe wall thickness "T": This is the nominal allowable pipe wall thickness which may be grooved.
- <sup>7</sup> Maximum allowable pipe end flare diameter "F": Measured at the most extreme pipe end diameter square cut or beveled.

### 3.0 ROLL GROOVING SPECIFICATIONS

Nominal Size	Pipe Outside Diameter <sup>1</sup>			Gasket Seat "A" <sup>2</sup>	Groove Width "B" <sup>3</sup>	Groove Diameter "C" <sup>4</sup>		Groove Depth "D" <sup>5</sup>	Min Allow. Wall Thk. "T" <sup>6</sup>	Max Allow. Flare Dia. "F" <sup>7</sup>
	Actual	Tolerance				Actual	Tol. +0.000 (+0.00)			
		+	-							
inches DN	inches mm	inches mm	inches mm	±0.03 inches ±0.76 mm	±0.03 inches ±0.76 mm	inches mm	inches mm	inches mm	inches mm	
¾ DN20	1.050	0.010	0.010	0.625	0.281	0.938	-0.015	0.056	0.065	1.15
	26.9	0.25	0.25	15.88	7.14	23.83	-0.38	1.42	1.65	29.2
1 DN25	1.315	0.013	0.013	0.625	0.281	1.190	-0.015	0.063	0.065	1.43
	33.7	0.33	0.33	15.88	7.14	30.23	-0.38	1.60	1.65	36.3
1¼ DN32	1.660	0.016	0.016	0.625	0.281	1.535	-0.015	0.063	0.065	1.77
	42.4	0.41	0.41	15.88	7.14	38.99	-0.38	1.60	1.65	45.0
1½ DN40	1.900	0.019	0.019	0.625	0.281	1.775	-0.015	0.063	0.065	2.01
	48.3	0.48	0.48	15.88	7.14	45.09	-0.38	1.60	1.65	51.1
2 DN50	2.375	0.024	0.024	0.625	0.344	2.250	-0.015	0.063	0.065	2.48
	60.3	0.61	0.61	15.88	8.74	57.15	-0.38	1.60	1.65	63.0
2½ DN65	2.875	0.029	0.029	0.625	0.344	2.720	-0.018	0.078	0.083	2.98
	73.0	0.74	0.74	15.88	8.74	69.09	-0.46	1.98	2.11	75.7
3 DN80	3.000	0.030	0.030	0.625	0.344	2.845	-0.018	0.078	0.083	3.10
	76.1	0.76	0.76	15.88	8.74	72.26	-0.46	1.98	2.11	78.7
3½ DN90	3.500	0.035	0.031	0.625	0.344	3.344	-0.018	0.078	0.083	3.60
	88.9	0.89	0.79	15.88	8.74	84.94	-0.46	1.98	2.11	91.4
4 DN100	4.000	0.040	0.031	0.625	0.344	3.834	-0.020	0.083	0.083	4.10
	101.6	1.02	0.79	15.88	8.74	97.38	-0.51	2.11	2.11	104.1
4½ DN125	4.500	0.045	0.031	0.625	0.344	4.334	-0.020	0.083	0.083	4.60
	114.3	1.14	0.79	15.88	8.74	110.08	-0.51	2.11	2.11	116.8
5 DN150	4.250	0.043	0.031	0.625	0.344	4.084	-0.020	0.083	0.083	4.35
	108.0	1.09	0.79	15.88	8.74	103.73	-0.51	2.11	2.11	110.5
5½ DN175	5.000	0.050	0.031	0.625	0.344	4.834	-0.020	0.083	0.095	5.10
	127.0	1.27	0.79	15.88	8.74	122.78	-0.51	2.11	2.41	129.5
6 DN200	5.250	0.053	0.031	0.625	0.344	5.084	-0.020	0.083	0.109	5.35
	133.0	1.35	0.79	15.88	8.74	129.13	-0.51	2.11	2.77	135.9
6½ DN225	5.500	0.056	0.031	0.625	0.344	5.334	-0.020	0.083	0.109	5.60
	139.7	1.42	0.79	15.88	8.74	135.48	-0.51	2.11	2.77	142.2
7 DN250	5.563	0.056	0.031	0.625	0.344	5.395	-0.022	0.084	0.109	5.66
	141.3	1.42	0.79	15.88	8.74	137.03	-0.56	2.13	2.77	143.8
7½ DN275	6.000	0.056	0.031	0.625	0.344	5.830	-0.022	0.085	0.109	6.10
	152.4	1.42	0.79	15.88	8.74	148.08	-0.56	2.16	2.77	154.9
8 DN300	6.250	0.063	0.031	0.625	0.344	6.032	-0.030	0.109	0.109	6.35
	159.0	1.60	0.79	15.88	8.74	153.21	-0.76	2.77	2.77	161.3
8½ DN350	6.500	0.063	0.031	0.625	0.344	6.330	-0.022	0.085	0.109	6.60
	165.1	1.60	0.79	15.88	8.74	160.78	-0.56	2.16	2.77	167.6
9 DN400	6.625	0.063	0.031	0.625	0.344	6.455	-0.022	0.085	0.109	6.73
	168.3	1.60	0.79	15.88	8.74	163.96	-0.56	2.16	2.77	170.9
9½ DN450	8.000	0.063	0.031	0.750	0.469	7.816	-0.025	0.092	0.109	8.17
	203.2	1.60	0.79	19.05	11.91	198.53	-0.64	2.34	2.77	207.5
10 DN500	8.625	0.063	0.031	0.750	0.469	8.441	-0.025	0.092	0.109	8.80
	219.1	1.60	0.79	19.05	11.91	214.40	-0.64	2.34	2.77	223.5
10½ DN550	10.000	0.063	0.031	0.750	0.469	9.812	-0.027	0.094	0.134	10.17
	254.0	1.60	0.79	19.05	11.91	249.23	-0.69	2.39	3.40	258.3
11 DN600	10.750	0.063	0.031	0.750	0.469	10.562	-0.027	0.094	0.134	10.92
	273.0	1.60	0.79	19.05	11.91	268.28	-0.69	2.39	3.40	277.4
11½ DN650	12.000	0.063	0.031	0.750	0.469	11.781	-0.030	0.109	0.156	12.17
	304.8	1.60	0.79	19.05	11.91	299.24	-0.76	2.77	3.96	309.1
12 DN700	12.750	0.063	0.031	0.750	0.469	12.531	-0.030	0.109	0.156	12.92
	323.9	1.60	0.79	19.05	11.91	318.29	-0.76	2.77	3.96	328.2
12½ DN750	14.842	0.093	0.031	0.938	0.469	14.611	-0.030	0.116	0.177	15.00
	377.0	2.36	0.79	23.83	11.91	371.1	-0.76	2.94	4.50	381.00
13 DN800	16.772	0.093	0.031	0.938	0.469	16.514	-0.035	0.129	0.177	16.93
	426.0	2.36	0.79	23.83	11.91	419.5	-0.89	3.28	4.50	430.00
13½ DN850	18.898	0.093	0.031	1.000	0.469	18.626	-0.035	0.136	0.236	19.06
	480.0	2.36	0.79	25.40	11.91	473.1	-0.89	3.45	5.99	484.1
14 DN900	20.866	0.093	0.031	1.000	0.469	20.572	-0.035	0.147	0.236	21.03
	530.0	2.36	0.79	25.40	11.91	522.5	-0.89	3.73	5.99	534.2
14½ DN950	24.803	0.093	0.031	1.000	0.500	24.459	-0.035	0.172	0.276	25.00
	630.0	2.36	0.79	25.40	12.70	621.3	-0.89	4.37	7.01	635.00

## 4.0 FIRE HYDRANT PIPE



**Section: ORRFIRE® Pipe - Sprinkler and Hydrant Pipe**  
**Standard: AS4118.2.1 / AS2419**

**Surface Finish: SMARTCOTE® / ALLGAL® / Hot Dipped Galvanized**

OD (mm)	NB (mm)	Nominal Thickness (mm)	Designation	Surface Finish		Nom. Linear Mass (kg/m)	Nom. Mtre/ Tonne	Lengths / Pack
				SMARTCOTE	ALLGAL			
<b>6500mm Lengths Standard</b>								
26.7	20	2.0	XLight	✓	✓	1.23	814	127
		2.3	Light	✓	✓	1.40	717	127
		2.6	Medium	✓	✓	1.56	649	127
33.4	25	2.0	XLight	✓	✓	1.56	639	91
		2.6	Light	✓	✓	1.99	501	91
		3.2	Medium	✓	✓	2.41	415	91
42.2	32	2.0	XLight	✓	✓	1.99	501	61
		2.6	Light	✓	✓	2.55	392	61
		3.2	Medium	✓	✓	3.09	323	61
48.3	40	2.3	XLight	✓	✓	2.61	383	61
		2.9	Light	✓	✓	3.25	308	61
		3.2	Medium	✓	✓	3.56	280	61
60.3	50	2.3	XLight	✓	✓	3.29	304	37
		2.9	Light	✓	✓	4.11	244	37
		3.6	Medium	✓	✓	5.03	199	37
76.1	65	2.3	XLight	✓	✓	4.19	239	37
		3.2	Light	✓	✓	5.75	174	37
		3.6	Medium	✓	✓	6.44	155	37
88.9	80	2.6	XLight	✓	✓	5.53	181	—
		3.2	Light	✓	✓	6.76	148	—
		4.0	Medium	✓	✓	8.38	119	—
114.3	100	2.5	—	✓	✓	6.89	145	—
		3.2	XLight	✓	✓	8.76	114	—
		3.6	Light	✓	✓	9.83	102	—
		4.5	Medium	✓	✓	12.20	82	—
139.7	125	3.0	XLight	✓	✓	10.11	99	—
		3.5	Light	✓	✓	11.08	85	—
		5.0	Medium	✓	✓	16.60	60	—
165.1	150	3.0	XLight	✓	✓	11.99	83	—
		3.5	Light	✓	✓	13.20	72	—
		5.0	Medium	✓	✓	19.70	51	—
		5.4	Heavy	✓	✓	21.30	47	—
168.3	—	4.8	—	—	—	19.35	52	—
		6.4	—	—	—	25.55	39	—
219.1	200	4.8	—	—	—	25.37	39	—
		6.4	—	—	—	33.57	30	—
273.1	250	4.8	—	—	—	31.76	31	—
		6.4	—	—	—	42.09	24	—
323.9	300	4.8	—	—	—	37.77	26	—

**NOTE:**

- » Recommended maximum test pressure is 5000 kPa / 725 Psi.
- » The pipe must be supported to avoid all external loads and free to accommodate thermal expansion.
- » For light and extra light pipe in all sizes the minimum yield strength is 300 MPa and 200 MPa for medium wall.
- » Pipes 200NB and above have minimum yield strength of 300 MPa.
- » These tables are applicable for services where pipe contents temperature does not exceed 250° C.
- » Pipe 20NB up to 150NB is painted red primer.
- » Pipe 200NB and above is painted black primer.
- » Non standard sizes, surface finish and lengths available, subject to enquiry.
- » Minimum order quantities (MOQ's) apply.
- » Pipes >300NB available subject to enquiry.

## 4.0 FIRE HYDRANT PIPE CONT...

### SPRINKLER & HYDRANT PIPE - DIAMETER TOLERANCE

Maximum variation from nominal outside diameter in all wall thicknesses															
NB	(mm)	20	25	32	40	50	65	80	100	125	150	—	200	250	300
Outside Diameter	(mm)	26.9	33.7	42.4	48.3	60.3	76.1	88.9	114.3	139.7	165.1	168.3	219.1	273.1	323.9
Min OD	(mm)	26.6	33.4	42.0	47.8	59.7	75.3	88.0	113.2	138.3	163.4	166.6	217.0	270.4	320.7
Max OD	(mm)	27.2	34.0	42.8	48.8	61.0	76.9	89.8	115.4	141.1	166.7	170.0	221.3	275.8	327.1

### MECHANICAL PROPERTIES

Pipe Dimensions	Minimum Yield Strength	Minimum Tensile Strength	Minimum Elongation as a proportion of gauge Lengths
Light Wall Pipe 20 TO 150 NB (3/4 TO 6 INCH)	300 MPa	400 MPa	20%
Medium Wall Pipe 20 TO 150 NB (3/4 TO 6 INCH)	200 MPa	300 MPa	22%
Schedule 200 TO 300 NB (8 TO 12 INCH)	300 MPa	420 MPa	20%

### ACTIV FIRE APPROVALS

ActivFire® Approval Listing Number	Product	Designation
afp 1641	ORRFIRE® SMARTCOTE® Red Painted	Extra Light pipe
afp 1510	ORRFIRE® SMARTCOTE® Red Painted	Light pipe
afp 1511	ORRFIRE® SMARTCOTE® Red Painted	Medium pipe
afp 2481	ORRFIRE® SMARTCOTE® Red Painted	Sprinkler & Hydrant pipe Extra Light and Light
afp 1640	ORRFIRE® ALLGAL® Electro Galvanized	Extra Light pipe
afp 1528	ORRFIRE® ALLGAL® Electro Galvanized	Extra Light pipe 100NB and above
afp 1508	ORRFIRE® ALLGAL® Electro Galvanized	Light pipe
afp 1509	ORRFIRE® ALLGAL® Electro Galvanized	Medium pipe
afp 1529	ORRFIRE® Hot Dipped Galvanized	Sprinkler & Hydrant pipe Extra Light and Light
afp 1530	ORRFIRE® Hot Dipped Galvanized	Sprinkler and Hydrant Medium pipe

### THREADING SPECIFICATIONS

End Treatment	Min Size (mm)	Max Size (mm)	Min Thickness (mm)	Max Thickness (mm)
Threading	25NB	50NB	3.2	4.5

# 5.0 STEEL FITTING

## HALF SOCKETS/ PROFILE SOCKETS/ PAPS/ BLANK ENDS

### GENERAL SPECIFICATIONS

British Standard Threads							
All measurements in mm							
NOMINAL BORE OF PIPE		APPROX. OUTSIDE DIAMETER	NUMBER OF THREADS PER INCH	PITCH	DEPTH OF THREADS	DIAMETER AT GAUGE PLANE	LENGTH OF USEFUL THREAD
IMPERIAL	METRIC	A		P	h	B	E
1/8	6	10.16	28	0.907	0.581	9.72	6.5
1/4	8	13.66	19	1.337	0.856	13.15	9.7
3/8	10	17.17	19	1.337	0.856	16.66	10.1
1/2	15	21.51	14	1.814	1.162	20.95	13.2
3/4	20	27.00	14	1.814	1.162	26.44	14.5
1	25	33.93	11	2.309	1.479	33.24	16.8
1 1/4	32	42.59	11	2.309	1.479	41.91	19.1
1 1/2	40	48.48	11	2.309	1.479	47.80	19.1
2	50	60.47	11	2.309	1.479	59.61	23.4
2 1/2	65	76.09	11	2.309	1.479	75.18	26.7
3	80	98.87	11	2.309	1.479	97.88	29.8
4	100	114.14	11	2.309	1.479	113.03	35.8
5	125	139.65	11	2.309	1.479	138.43	40.1
6	150	165.12	11	2.309	1.479	163.89	40.1

Chemical Composition of Seamless Steel Fittings		
C MAX. (%)	S MAX. (%)	P MAX. (%)
0.25	0.35	0.09

Chemical Composition of Fabricated Fittings			
C MAX. (%)	Mn MAX. (%)	P MAX. (%)	S MAX. (%)
0.25	1.40	0.045	0.045

Mechanical Properties of Seamless Steel Fittings	
TENSILE STRENGTH MIN. (N/mm2)	ELONGATION MIN. (%)
320	20

Mechanical Properties of Fabricated Fittings		
TENSILE STRENGTH MIN. (N/mm2)	YEILD STRENGTH MIN. (N/mm2)	ELONGATION MIN. (%)
320	195	20

STEEL THREADED PIPE FITTINGS MANUFACTURED ACCORDING TO THE BS EN 10241:2000 STANDARD.  
 NORMATIVE REFERENCES: EN 10204, EN ISO 6708, ISO 7-1 PART 1, ISO 7-2, PART 2, AS 1074.

## 6.0 GALVANISED MALLEABLE IRON PIPE FITTINGS

ELBOWS/ REDUCING ELBOWS/ M-F ELBOWS/ TEES/ REDUCING TEES/ HEX NIPPLE/  
SQUARE HEAD PLUG

### GENERAL SPECIFICATIONS

#### STANDARD AND IDENTIFICATION:

Standard for production and use EN 10242 : 1994

Fittings made of high quality blackheart malleable cast iron to ASTM A-197, ASTM A47

**THREADS:** The threads are cut according to BS 1722:1 / ISO 7/1. Parallel internal thread (IP) and tapered external thread (EP).

**APPLICATION:** All the fittings are adequate for the supply of water at recommended maximum working pressure of 1370kPa and gas, steam and compressed air at recommended maximum working pressure of 1034 kPa. Note: Working pressures may also be limited by relevant pressure piping codes or industry regulations.

**DIMENSIONS:** All the fittings are manufactured to the specifications of standard BS EN 10242, BS 143, BS 1258

**INSPECTION:** All the fittings are inspected for conformity with the specifications of standard EN 10242.

**MARKING:** All the fittings, when possible, are marked with brand and/or with the nominal size identification.

**HOT DIP:** The fittings are delivered in hot dip galvanized finish, as prescribed by the standard EN 10242.

**LEAK TEST:** Applying the standard EN 10242 each individual fitting is subjected to a pressure test with a min. Hydrostatic pressure of 2068 kPa, which is equivalent to a pneumatic pressure of min. 500 kPa, without showing any sign of leakage or abnormality.

BRITISH STANDARD THREADS							
All measurements in mm							
NOMINAL BORE OF PIPE		APPROX. OUTSIDE DIAMETER	NUMBER OF THREADS PER INCH	PITCH	DEPTH OF THREADS	DIAMETER AT GAUGE PLANE	LENGTH OF USEFUL THREAD
IMPERIAL	METRIC	A		P	h	B	E
1/8	8	10.16	28	0.907	0.501	9.72	6.5
1/4	8	13.00	19	1.337	0.856	13.15	9.7
3/8	10	17.17	19	1.337	0.856	16.60	10.1
1/2	15	21.51	14	1.814	1.162	20.95	13.2
3/4	20	27.00	14	1.814	1.162	26.44	14.6
1	25	33.08	11	2.309	1.479	33.24	16.8
1 1/4	32	42.50	11	2.309	1.479	41.91	19.1
1 1/2	40	48.48	11	2.309	1.479	47.80	19.1
2	60	60.47	11	2.309	1.479	63.61	23.4
2 1/2	85	78.09	11	2.309	1.479	75.16	26.7
3	90	88.07	11	2.309	1.479	87.66	29.8
4	100	114.14	11	2.309	1.479	113.03	35.8
5	125	139.65	11	2.309	1.479	138.43	40.1
6	150	165.12	11	2.309	1.479	163.83	40.1



# 7.0 BUTTWELD FITTINGS

## LONG RADIUS BUTTWELD ELBOW/ SHORT RADIUS BUTTWELD ELBOW/ ECCENTRIC REDUCER/ CONCENTRIC REDUCER

### GENERAL SPECIFICATIONS

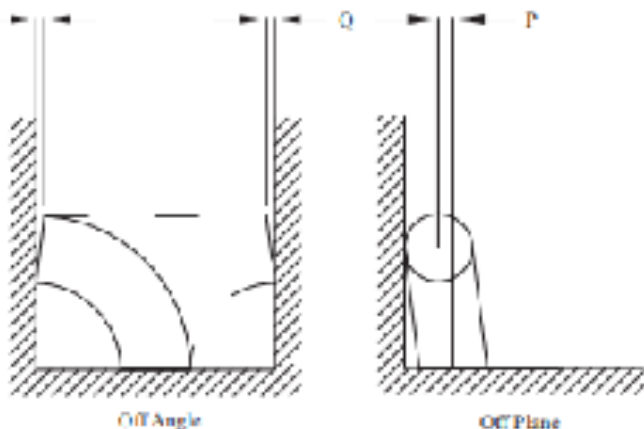
AAP stocks Buttweld made from high quality carbon alloy steel to ASTM A234 which can be used in various piping systems. The advantages of Buttweld include:

- Welding a fitting to the pipe means it is permanently leak proof.
- The continuous metal structure formed between pipe and fitting adds strength to the system.
- Smoother inner surface and gradual direction changes reduce the pressure losses and turbulence and minimises the action of corrosion and abrasion.
- A welded system utilizes a minimum of space.

### Buttweld Specifications Standard Weight (Std)

#### Dimensional Tolerance

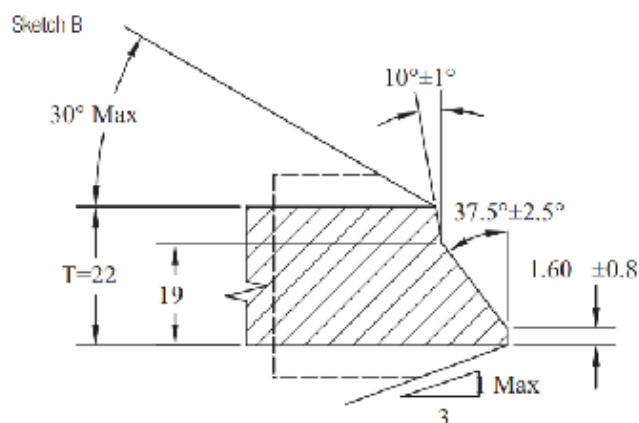
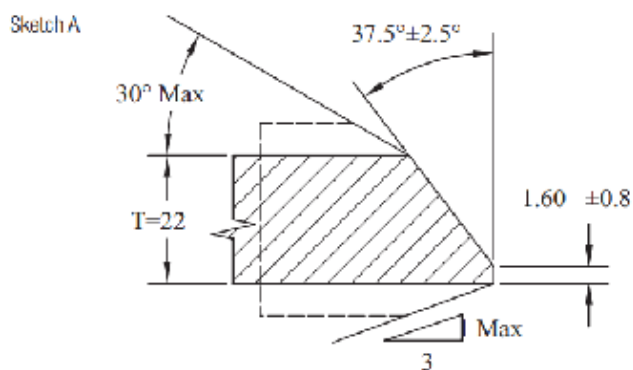
Buttweld STD ASTM A234 WPB ANSI B16.9 Dimensional Tolerance							
ALL FITTINGS				90° & 45° ELBOWS	TEES	REDUCERS	CAPS
NOMINAL PIPE SIZE (NPS)	OUTSIDE DIAMETER AT BEVEL	INSIDE DIAMETER AT END	WALL THICKNESS	CENTRE TO END	CENTRE TO END	OVERALL LENGTH	OVERALL LENGTH
1/2" - 2 1/2"	+1.5MM -0.7MM	+0.8MM -0.8MM	NOT LESS THAN 87.50% OF NOMINAL WALL THICKNESS				+3.0MM -3.0MM
3" - 4"	+1.8MM -1.8MM	+1.5MM -1.5MM					
6" - 8"	+2.4MM -1.9MM						
10" - 18"	+4.0MM -3.2MM	+3.2MM -3.2MM					16.3MM -6.3MM
20" - 24"	+5.4MM -4.8MM	+4.8MM -4.8MM					



Angularity		
NOMINAL PIPE SIZE (NPS)	OFF ANGLE (Q)	OFF PLANE (P)
1/2 TO 2 1/2	1.0MM	2.0MM
3 TO 3 1/2	2.0MM	4.0MM
4	3.0MM	5.0MM
5 - 8	3.0MM	6.0MM
10 - 18	4.0MM	10.0MM
20 - 24	5.0MM	10.0MM

## 7.0 BUTTWELD FITTINGS CONT...

Buttweld STD ASTM A234 ANSI B16.9 Welding End Preparation to ANSI B16.25	
WALL THICKNESS	WELDING AND PREPARATION
LESS THAN T (*)	CUT SQUARE OR SLIGHTLY CHAMFERED AT MANUFACTURER'S OPTION.
T (*) TO 22 INCLUDED	PLAIN BEVEL AS SKETCH (A)
MORE THAN 22	COMPOUND BEVEL AS SKETCH (B)
NOTE :- (*)	T = 5MM FOR CARBON, FERRITIC ALLOY STEEL OR WROUGHT IRON; T = 4MM FOR AUSTENITIC ALLOY STEEL



Pressure / Temperature Ratings											
SEAMLESS CARBON STEEL PIPE. GRADE B											
Nominal Size DN mm	Temp C		-29 to 38	205	260	350	370	400	430	450	
	Wall Thickness		MAXIMUM ALLOWABLE PRESSURE / TEMPERATURE RATINGS IN kPa (TO ANSI/ASME B31.3a)								
	Sched. No.	mm									
15	STD	40	2.77	34416	34416	32528	2925	28910	22372	18589	14972
20	STD	40	2.87	28070	28070	26526	23860	23578	18245	15158	12209
25	STD	40	3.38	26251	26251	24804	22310	22048	17060	14173	11417
32	STD	40	3.56	21614	21614	20421	18369	18155	14049	11672	9404
40	STD	40	3.68	19444	19444	18375	16529	16329	12636	10500	8454
50	STD	40	3.91	16378	16378	15468	13925	13759	10645	8847	7124
65	STD	40	5.16	17914	17914	16929	15227	15048	11644	9674	7793
80	STD	40	5.49	15558	15558	14696	13222	13063	10108	8399	6766
100	STD	40	6.02	13187	13187	12464	11210	11079	8571	7124	5739
150	STD	40	7.11	10500	10500	9928	8924	8819	6828	5670	4568
200	STD	40	8.18	9246	9246	8737	7855	7765	6008	4995	4024
250	STD	40	9.27	8385	8385	7923	7131	7048	5450	4527	3652
300	STD	N/A	9.53	7241	7241	6842	6153	6084	4706	3914	3149

# 8.0 FLANGES

## SLIP ON PLATE FLANGE (TABLE E) / DIN PN16 SLIP ON PLATE FLANGES

### GENERAL SPECIFICATIONS

#### SPECIFICATIONS:

ANSI B16.5 - Pipe Flanges and Flanged Fittings (American)

AS2129 - Flanges for Pipes, Valves and Fittings (Australian)

BS4504 - Circular Flanges for Pipe, Valves and Fittings (PN designated) - (now BS EN1092) (European)

AS4087 - Metallic Flanges for Waterworks Purposes (Australian)

BS10 - Specification for Flanges and bolting for Pipes, Valves and Fittings (British)

\*AS2129 is a replica of BS10 but is stated in mm rather than inches. In some sizes bolt holes are slightly larger to give better clearance

**APPLICATION:** Water Supply, Oil, Gas, Petrochemical, Irrigation, Fire Services, General Industry, Construction.

**MARKING:** All Flanges when possible will display a heat number, size, table, grade and dimensional standard

**PLATE STEEL FLANGES:** Plate flanges are mainly used for light duty, lower pressure or non-critical applications, commonly referring to AS2129, BS10 or AS4087 standards. The manufacturing method involves cutting and machining from plate steel

**FORGED STEEL FLANGES:** Forged Steel flanges are commonly used and specified in the Oil, Gas, Petrochemical and mining sectors, where pressure, temperature and safety considerations often specify the ANSI B16.5, ASME B16.47 or BS4504 standards. The manufacturing method involves the hot forging of suitable steels prior to final machining

#### MATERIALS

Mild Carbon Steel

ASTM A105

ASTM A182 316I

AMP CAN ALSO OFFER A WIDE RANGE OF PRODUCTS ON REQUEST WHICH INCLUDE

BS4504 (DIN) flanges from PN6 TO PN40

CHEMICAL PROPERTIES				
CARBON	MANGANESE	PHOSPHORUS	SULFAR	SILICON
.35% max	.60 - 1.05%	.010% max	.050% max	0.35%

NOTE 1 – For each reduction of 0.01% below the specified carbon maximum (0.35%), an increase of 0.06% manganese above the specified maximum (1.05%) will be permitted up to a maximum of 1.35%.

MECHANICAL PROPERTIES				
TENSILE STRENGTH min, Mpa	YIELD STRENGTH min, Mpa	ELONGATION IN 50mm, min%	REDUCTION OF AREA, min %	HARDNESS, HB max
485	250	22	30	187

c Determined by either the 0.2% off-set method or the 0.5% extension-under-load method.

## 9.0 CERTIFICATE OF CURRENCY

If you are a client and would like to receive a copy of the certificate of currency, please contact us via email:  
[admin@firepoint.net.au](mailto:admin@firepoint.net.au)

<b>NAME OF INSURED:</b>	FIRE POINT PTY LTD
<b>TYPE OF INSURANCE:</b>	Public and Products Liability
<b>POLICY NO:</b>	TR147756
<b>PERIOD:</b>	From: 24/12/2019 To: 24/12/2020 (at 4.00pm local time)
<b>TERRITORIAL LIMITS:</b>	Commonwealth of Australia
<b>DESCRIPTION OF RISK:</b>	Boilermakers / Welders / Metal Fabrication / Steel Erectors - Excluding Structural -
<b>LIMIT OF INDEMNITY:</b>	Public and Products Liability - \$10,000,000
<b>INSURERS:</b>	Certain Underwriters at Lloyd's

## 10.0 COMPANY INFORMATION

ENTITY NAME (AS SEEN ON WWW.ABN.BUSINESS.GOV.AU)	FIRE POINT PTY LTD
TRADING NAME	FIRE POINT PTY LTD
ABN	15 636 602 723
ACN	636 602 725
GST STATUS	Registered/ Tax Inclusive
DESCRIPTION OF GOODS/ SERVICES	Fabrication of Fire Sprinkler Pipes
HEAD OFFICE ADDRESS	3-7 Bowen Street, Slacks Creek 4127 QLD
CONTACT NUMBER	0421 971 040
MANUFACTURING MANAGER	Alex Kim 0433 232 733 alex@firepoint.net.au
ORDERS/ QUOTES/ OPERATIONS	Jane Kim 0421 971 040 admin@firepoint.net.au
PAYMENT TERMS	30 days from Invoice Date
ACCOUNTS CONTACT	Jane Kim Operations Administrator 0421 971 040 admin@firepoint.net.au