



Pipeline
The Preferred Fire Pipe Fabricator



Pipeline[®]
Distribution (M) Sdn. Bhd.



Pipeline[®]
Distribution (M) Sdn. Bhd.

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PIPELINE

The Specialist for Pre-Painted Fabricated Pipe
for FIRE PROTECTION SYSTEMS

*For Safety, Quality and Productivity
Reduced site costs and installation time*

VISION, MISSION, VALUES

"To Be the Leading Pre-fabricated Pipe Brand In The Asia Region"
- Our Vision

"To Be the Preferred Pre- Fabricated Pipe Parnter for Leading Brands"
- Mission Statement

*"Commitment to Business Integrity, Honesty, Safety,
Quality and Protection of the Environment "*
- Core Values

Fabrication of Pipe for **FIRE** Protection since 1998

Pipeline Distribution (M) Sdn Bhd is a wholly owned subsidiary of Deluge Fire Protection (S.E.A) Pte Ltd Singapore. We have been producing prefabricated carbon steel pipes for fire protection since 1998 and are the preferred choice for many high profile and outstanding projects.

Pipeline® is the leading Fire Protection Pipe Fabricator in Singapore and Malaysia with a total annual capacity in excess of 8,000 tons. Strategically located in Jurong, Singapore and, Iskandar Johor, Malaysia, we are positioned to serve both markets.

Committed to the highest standards of quality, Pipeline® utilizes shop tested machine welds, gauge thread and grooves, and in-house crane trucks for delivery. All project orders are packed, tagged and bundled in our customized format to for easy guidance and clarity during installation.

With our integrated supply chain, Pipeline® can provide for your fire pipe needs in a single turnkey package. We are able to maintain consistent product quality and fast delivery to meet tight deadline because all pipe fabrication is done in our environmentally controlled factory using our own direct workers. We do it better by managing every step of the design, grooving, welding process and, delivery and installation for all our pipes.

We can also customise our prefabricated pipes to any design configurations to meet site requirements.

Our exceptional value combined with our outstanding track record, performance quality, managerial and technical expertise are the reasons why Pipeline® is preferred by leading brands.

Pipeline® - the Specialist in painted pre-fabricated pipes for all your fire protection needs.





PIPELINE®: YOUR FIRE PROTECTION PIPE SOLUTION

Prefabrication of fire protection pipes is a manufacturing technique used widely in most developed countries, especially in the U.S.A & Europe. Prefabrication offers superior quality, increased productivity and helps to reduce manpower costs.

With standard and custom-to-order configurations, Pipeline® pre-fabricated pipes can help you save costs in these areas:

- Inventory : Optimize site inventory and material management, control.
- Manpower : Save on Manpower. Does not require skilled worker to install
- Time Utilization : Enable better construction planning, efficient manpower utilization:
- Speed : Fast delivery, handling and installation on-site
- No Delays : Installation won't be delayed by bad weather conditions

For more output, better work quality and manpower savings, use Pipeline® fire protection pipes.



Our Workflow

- ✦ Incoming projects are analyzed by skilled managers and engineers to understand project requirements. AutoCAD is then used to generate engineering drawings before workflow is planned into the workshop.
- ✦ Precisely indicate volume of prefabricated pipe work in carbon steel and stainless steel.
- ✦ Selectively X-ray and examine weld details to ensure integrity.
- ✦ Full weld mapping copy for selected projects. Total assurance of finished quality for clients
- ✦ No cost surprises. Priced according to agreed schedule of rates. Upfront clarity on total cost.



STANDARD
Fire sprinkler system |
Dry & Wet riser system |
Hose reel system |

CUSTOM-TO-ORDER

Pipe of non-standard configuration as per your construction drawings;
For welded & grooved pipe systems, pump header and manifold
Controlled valve system, pipe bracket and skid assemblies.

Specialized welding complying with industrial and AWS specifications are available on request.

PROCESS FLOW CHART

INSPECTION OF RAW MATERIALS

Raw materials are inspected for corrosion, dents and bends. Vernier caliper and measuring tape are used to inspect the outside diameter and thickness of the pipes. Mill certificates are reviewed and filed for future reference. Key vendors for raw material are pre-qualified and those with ISO Certification are preferred.

MATERIAL STORAGE

All materials are stored indoors to ensure good quality of materials and easy inventory.

DIMENSION LAYOUT, CUTTING & BEVELING

Mechanical methods involve the use of saws, abrasive discs, lathes, and pipe-cutting machines or tools. Thermal methods mainly involve use of oxy-acetylene gas cutting.

FABRICATION METHODS

Grooving

Roll groove is achieved by placing the pipe end in **VICTAULIC** grooving machine & rolling (mechanically deforming) a groove into the pipe.

VICTAULIC groove tape will be used to measure groove depth after cutting and grooving.

Welding

TIG or MIG welding constitutes the bulk of the work involved in fabrication of modern piping systems. Each welders shall be qualified to ensure the quality of welding. Welding shall be done in accordance to Welding Procedure Specification (WPS), which lists the various parameters to be used. Each weld joint should be carefully aligned within required tolerances using alignment fixtures.

Threading

Threading shall be done in accordance to relevant code such as (ASME B1.20.1, BS21) with HMV threading machines.

QA/QC INSPECTION

Inspection in accordance with the ISO 9001:2008 QA/QC standards. Any non-conformance shall be evaluated and/or corrected.

FINAL PROCESS

PAINTING and INSPECTION

- Fabricated pipe spools/supports shall be painted in accordance with our factory standard PIPELINE® Multi Shield Epoxy Paint (Red/White - paint thickness 80~100 micron)
- Paint inspection and acceptance criteria shall be in accordance with QA/QC standards.

PACKING AND DELIVERY

Packing and delivery shall be done in accordance to factory packing and delivery procedure

PRODUCTION FLOW CHART

BRACKET SUPPORT



MATERIAL



BANDSAW CUTTING



WELDING



IRON WORKER

MAIN PIPE



MATERIAL



BANDSAW CUTTING



GROOVING



WELDING



CORING OF PIPE

RANGE PIPE



MATERIAL



CIRCULAR SAW CUTTING



GROOVING



THREADING



CORING OF PIPE



FIT-UP



WELDING OF SOCKETS





Pipeline's Preferred Brand for Mechanical Couplings:

Pipeline Distribution is the distributor for Victaulic in Singapore & Malaysia. Victaulic the world leader in grooved and plain-end mechanical pipe joining systems, was founded in New York City in 1919 to market a radical new concept in the piping industry – a mechanical, bolted coupling that would engage into grooves on the pipe ends and feature a gasket seal. For more than 95 years, the company's enthusiasm for crafting unconventional solutions has allowed it to forge new paths as it tackles the industry's most unique challenges.

The grooved piping method – which dramatically reduces the amount of installation time and reduces total installation cost as compared to welding, threading or flanging – is now the predominant global method for assembly of sprinkler system piping. In fact, Victaulic received the world's first UL Listing for a grooved coupling to be used in fire protection systems back in 1952.

Pipeline & the Victaulic Approach:

What began as simply a faster, easier and more economical way of joining pipe has evolved into a whole new approach to solving piping problems – a "total systems" approach.

Specific to the fire protection market, Victaulic offers a full range of FireLock® branded products including FireLock NXT™ devices, FireLock valves, FireLock EZ™ Installation-Ready™ couplings, FireLock fittings, FireLock automatic sprinklers for virtually any application, support equipment and pipe grooving tools that provide efficient, cost-effective system design and installation solutions for any kind of fire protection application.

FireLock® EZ Installation-Ready™ Coupling

- * Unique Installation-Ready technology allows for coupling installation without disassembling the coupling
- * Up to twice as fast as traditional break-apart couplings
- * No loose parts to drop and lose during installation reduces onsite risk
- * Easy visual verification of correct installation



Others VICTAULIC PRODUCTS :

Mechanical-T® Outlet

- * Available with grooved or threaded outlet in a range of sizes
- * Provides a direct branch connection at any pipe location where a hole can be cut
- * A "holefinder" locating collar secures the outlet permanently into position

FireLock® Devices

- * Available with wet, deluge and pre-action trim
- * Valves come pre-trimmed or with VicQuick Riser assembly for fast, out-of-the-box installation
- * Smallest footprint on the market – increases billable space

FireLock® Sprinklers

Sprinklers for a full range of applications including commercial, storage and residential

Pipe are tested by PSB (Singapore), EN and comply to NFPA 13/ 15, CP 29 / 52, MS 1489 / 1910

**PIPELINE PIPE SPECIFICATION
ASTM A53 API ERW STEEL PIPES**

NOM. SIZE	OUTSIDE DIA.	WALL THICKNESS (mm)		WEIGHT (kg/m)		GROOVE Dia.(mm)	NPT Thread Length (mm)
		SCH 20	SCH 40	SCH 20	SCH 40		
25	33.4	NA	3.38	NA	2.50	30.2	14.3
32	42.2	NA	3.56	NA	3.39	39.0	18.0
40	48.3	NA	3.68	NA	4.05	45.1	18.4
50	60.3	NA	3.91	NA	5.44	57.2	19.2
65	73.0	NA	5.16	NA	8.63	69.1	NA
80	88.9	NA	5.49	NA	11.49	84.9	NA
100	114.3	NA	6.02	NA	16.07	110.1	NA
150	168.3	NA	7.11	NA	28.26	164.0	NA
200	219.1	6.35	8.18	33.31	42.58	214.4	NA
250	273.0	6.35	9.27	41.75	60.29	268.3	NA
300	323.8	6.35	10.30	49.71	79.65	318.3	NA
350	355.6	7.92	11.13	67.9	94.49	350.0	NA
400	406.4	7.92	12.70	77.83	123.29	400.8	NA

EN 10255 Formerly known as BS 1387:1985

NOM. SIZE	OUTSIDE DIA.	WALL THICKNESS (mm)		WEIGHT (kg/m)		GROOVE Dia.(mm)	NPT Thread Length (mm)
		Max. (mm)	Medium Heavy	Medium Heavy	Heavy		
25	34.2	3.2	4.0	2.42	2.94	30.2	11
32	42.9	3.2	4.0	3.10	3.80	39.0	11
40	48.8	3.2	4.0	3.57	4.38	45.1	11
50	60.8	3.6	4.5	5.03	6.19	57.2	11
65	76.6	3.6	4.5	6.43	7.93	69.1	11
80	89.5	4.0	5.0	8.37	10.33	84.9	NA
100	114.9	4.5	5.4	12.16	14.48	110.1	NA
150	166.1	5.0	5.4	19.74	21.27	164.0	NA

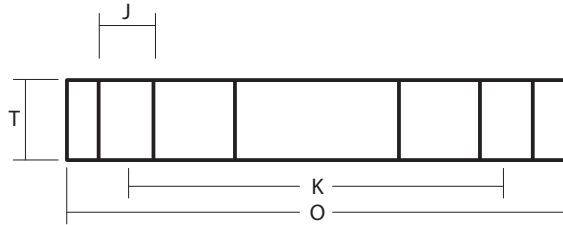
JIS G3452 Carbon Steel Pipes

NOM. SIZE	OUTSIDE DIA.	WALL THICKNESS (mm)		WEIGHT (kg/m)	GROOVE Diameter Max. (mm)
		Max. (mm)	(mm)		
200	216.3	5.8		30.1	214.4
250	267.4	6.6		42.4	268.3
300	318.5	6.9		53.0	318.3
350	355.6	7.9		67.7	350.0
400	406.4	7.9		77.6	400.8

EN 545 Ductile iron Pipes (Tyton Socket Joint, Class K9)

NOM. SIZE	OUTSIDE DIA.	WALL THICKNESS (mm)	WEIGHT (kg/m)	Max. Field Hydrostatic Test pressure
100	118	6.1	15.83	45 bars
150	170	6.3	24.00	45 bars
200	222	6.4	24.00	45 bars
250	274	6.8	40.20	45 bars

FLANGES SPECIFICATION



ANSI 150 LBS FLAT FACE PLATE FLANGES

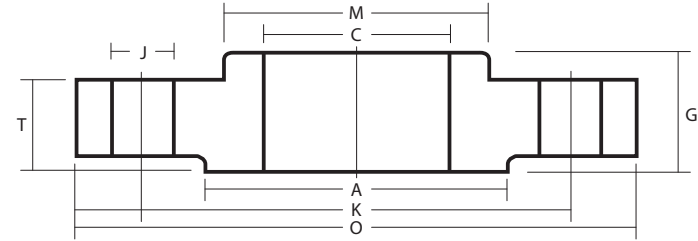
NOMINAL PIPE SIZE	OUTSIDE DIAMETER, O (mm)	THICKNESS T (mm)	PCD K (mm)	No. of Bolt Holes	Dia. of Bolt Hole J (mm)	Pressure rating (PSI)
25	108	14	79.4	4	15.9	150
32	117	16	88.9	4	15.9	150
40	127	16	98.4	4	15.9	150
50	152	18	120.7	4	19.1	150
65	178	18	139.7	4	19.1	150
80	191	18	152.4	4	19.1	150
100	229	18	190.5	8	19.1	150
150	279	22	241.3	8	22.2	150
200	343	22	298.5	8	22.2	150
250	406	24	362.0	12	25.4	150
300	483	26	431.8	12	25.4	150
350	533	28	476.3	12	28.6	150
400	597	31	539.8	16	28.6	150

PN16 FLAT FACE PLATE FLANGES

NOMINAL PIPE SIZE	OUTSIDE DIAMETER, O (mm)	THICKNESS T (mm)	PCD K (mm)	No. of Bolt Holes	Dia. of Bolt Hole J (mm)	Pressure rating (PSI)
25	115	16	85	4	14	16
32	140	16	100	4	18	16
40	150	16	110	4	18	16
50	165	18	125	4	18	16
65	185	18	145	4	18	16
80	200	20	160	8	18	16
100	220	20	180	8	18	16
150	285	22	240	8	22	16
200	340	24	295	12	22	16
250	405	26	355	12	26	16
300	460	28	410	12	26	16
350	520	30	470	16	26	16
400	580	32	525	16	30	16

FLANGES SPECIFICATION

ASTM A105 ASME B16.5 (Forged Steel Flange)



CLASS 150 SLIP-ON RAISED FACE (SORF)

NOMINAL PIPE SIZE	OUTSIDE DIAMETER, O (mm)	INTERNAL DIA. C (mm)	THICKNESS T (mm)	TOTAL THICKNESS G (mm)	DIA OF HUB AT BASE M (mm)	DIA OF RAISED FACE A (mm)	PCD K (mm)	NO. OF BOLT HOLES	DIA. OF BOLT HOLES J (mm)	PRESSURE RATING (PSI)
25	110	34.5	14.3	17.6	49	50.8	79.4	4	15.9	285
32	115	43.2	15.9	20.6	59	63.5	88.9	4	15.9	285
40	125	49.5	17.5	22.6	65	73.0	98.4	4	15.9	285
50	150	61.9	19.1	25.6	78	92.1	120.7	4	19.1	285
65	180	74.6	22.3	28.6	90	104.8	139.7	4	19.1	285
80	190	90.7	23.9	30.6	108	127.0	152.4	4	19.1	285
100	230	116.7	23.9	33.6	135	157.2	190.5	8	19.1	285
150	280	170.7	25.5	39.6	192	215.9	241.3	8	22.2	285
200	345	221.5	28.6	44.6	246	269.9	298.5	8	22.2	285
250	405	276.2	30.2	49.6	305	323.8	362.0	12	25.4	285
300	485	327	31.8	55.6	365	381.0	431.8	12	25.4	285
350	535	359.2	35.0	57.6	400	412.8	476.3	12	28.6	285
400	595	410.5	36.6	63.6	457	469.9	539.8	16	28.6	285

CLASS 300 SLIP-ON RAISED FACE (SORF)

NOMINAL PIPE SIZE	OUTSIDE DIAMETER, O (mm)	INTERNAL DIA. C (mm)	THICKNESS T (mm)	TOTAL THICKNESS G (mm)	DIA OF HUB AT BASE M (mm)	DIA OF RAISED FACE A (mm)	PCD K (mm)	NO. OF BOLT HOLES	DIA. OF BOLT HOLES J (mm)	PRESSURE RATING (PSI)
25	125	34.5	17.5	26.6	54	50.8	88.9	4	19.1	675
32	135	43.2	19.1	26.6	64	63.5	98.4	4	19.1	675
40	155	49.5	20.7	30.6	70	73.0	114.3	8	22.2	675
50	165	61.9	23.3	33.6	84	92.1	127.0	8	19.1	675
65	190	74.6	25.5	38.6	100	104.8	149.2	8	22.2	675
80	210	90.7	28.6	42.6	117	127.0	168.3	8	22.2	675
100	255	116.7	31.8	47.6	146	157.2	200.0	8	22.2	675
150	320	170.7	36.6	52.6	206	215.9	269.9	12	22.2	675
200	380	221.5	41.3	61.6	260	269.9	330.2	12	25.4	675
250	445	276.2	47.7	66.6	321	323.8	387.4	16	28.6	675
300	520	327	50.9	72.6	375	381.0	450.8	16	31.8	675
350	585	359.2	54.0	76.6	425	412.8	514.4	20	31.8	675
400	650	410.5	57.2	82.6	483	469.9	571.5	20	34.9	675

JIS & ANSI BUTT WELDING FITTINGS



90° Elbow (Long)



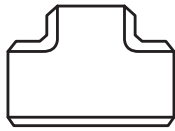
90° Elbow (Short)



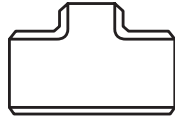
45° Elbow



CAP



Equal Tee



Reducing Tee



Concentric Reducer



Eccentric Reducer

NOMINAL SIZE (mm)	OUTSIDE DIAMETER	WALL THICKNESS	OUTSIDE DIAMETER	WALL THICKNESS			
	JIS	SGP	ANSI	STD	SCH 40	SCH 80	SCH 160
25	34	3.2	33.4	3.38	3.38	4.55	6.35
32	42.7	3.5	42.2	3.56	3.56	4.85	6.35
40	48.6	3.5	48.3	3.68	3.68	5.08	7.14
50	60.5	3.8	60.3	3.91	3.91	5.54	8.74
65	76.3	4.2	73	5.16	5.16	7.01	9.53
80	89.1	4.2	88.9	5.49	5.49	7.62	11.13
100	114.3	4.5	114.3	6.02	6.02	8.56	13.49
150	165.2	5.0	168.3	7.11	7.11	10.97	18.26
200	216.3	5.8	219.1	8.18	8.18	12.70	23.01
250	267.4	6.6	273	9.27	9.27	15.09	28.58
300	318.5	6.9	323.8	9.53	10.31	17.48	33.32
350	355.6	7.9	355.6	9.53	11.13	19.35	35.71
400	406.4	7.9	406.4	9.53	12.70	21.44	40.49

SPECIFICATION FOR PIPELINE FABRICATED

RANGE & MAIN PIPES WITH OPTIONAL CHOICE OF FITTINGS;

All Pipes are available in Class 'B', 'C', Galvanized (GI) 'B' & 'C'

A) Threaded Range Pipe (Threaded Both Ends)

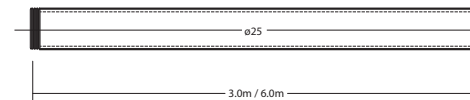
Pipeline : Fire Pipe
Standard : ASTM A53 (DN 25 to 50) / EN10255 (DN 25 to 50)
Pipe Schedule : i) ASTM A53 (Standard) ii) EN10255 Medium (Class B) or Heavy (Class C)

Paint : Pipeline Multi Shield Epoxy Paint (Red / White)
Paint Thickness : 80 ~100 micron

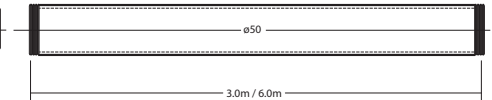
How to identify parts nos.

Example No. 1 - Steel Pipe 25 diameter (Class 'B') - Part no. **25BB3TBE**
Diameter ø : 25mm, 32mm, 40mm & 50mm
Standard Length : 1m, 1.5m, 2.0m, 2.4m, 3m, 3.6m, 6m
Colors : Red, White or Galvanized

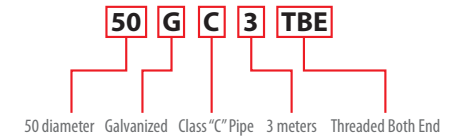
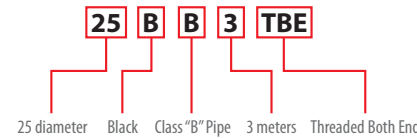
Example No. 2 - Steel Pipe 50 diameter (GI 'C') - Part no. **50GC3TBE**
Diameter ø : 25mm, 32mm, 40mm & 50mm
Standard Length : 1m, 1.5m, 2.0m, 2.4m, 3m, 3.6m, 6m
Colors : Red, White or Galvanized



E.G. Ø25, 3.0 / 6.0m PIPE



E.G. Ø50, 3.0 / 6.0m PIPE



B) Threaded Range Pipe (c/w fittings on One end)

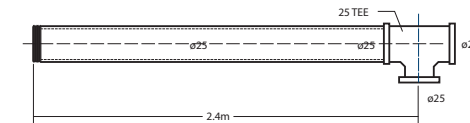
Pipeline : Fire Pipe
Standard : ASTM A53 (DN 25 to 50) / EN10255 (DN 25 to 50)
Pipe Schedule : i) ASTM A53 (Standard) ii) EN10255 Medium (Class B) or Heavy (Class C)

Paint : Pipeline Multi Shield Epoxy Paint (Red / White)
Paint Thickness : 80 ~100 micron

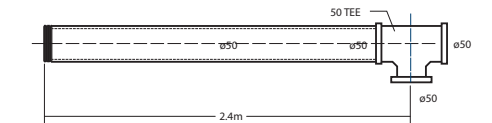
How to identify parts nos.

Example No.1 - Steel Pipe 25 diameter (Class B) - Part no. **25BB2.4XT25**
Diameter ø : 25mm, 32mm, 40mm & 50mm
Standard Length : 1m, 1.5m, 2.0m, 2.4m, 3m, 3.6m, 6m
Colors : Red, White or Galvanized

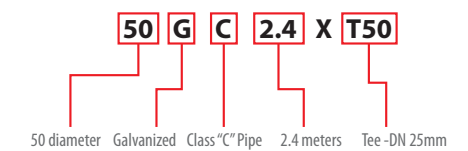
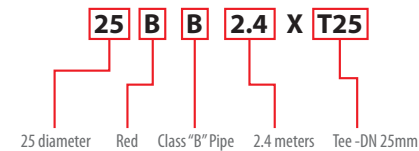
Example No.2 - Steel Pipe 50 diameter (Galvanized 'C') - Part no. **50GC2.4XT50**
Diameter ø : 25mm, 32mm, 40mm & 50mm
Standard Length : 1m, 1.5m, 2.0m, 2.4m, 3m, 3.6m, 6m
Colors : Red, White or Galvanized



E.G. Ø25, 2.4m, 25 TEE



E.G. Ø50, 2.4m, 50 TEE



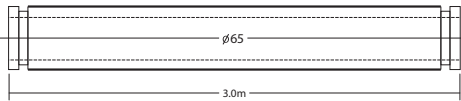
C) Main Pipe (Grooved Both Ends)

Pipeline : Fire Pipe
 Standard : ASTM A53 (DN 65 to 200) / EN10255 (DN 65 to 150) / JIS G3452 (DN 200) Paint : Pipeline Multi Shield Epoxy Paint (Red / White)
 Pipe Schedule : i) ASTM A53 (Standard) ii) 10255 Medium (Class B) or Heavy (Class C) iii) JIS G3452 (Standard) Paint Thickness : 80 ~100 micron

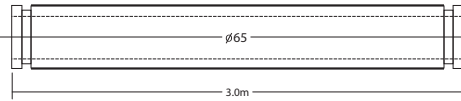
How to identify parts nos.

Example No. 1 - Steel Pipe 65 diameter (Class 'B') - Part no. **65BB3xGBE**
 Diameter ø : 65mm, 80mm, 100mm, 150mm, 200mm
 Standard Length : 3m and 6m
 Colors : Red, White or Galvanized

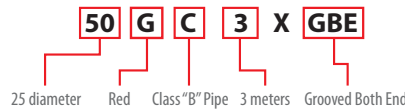
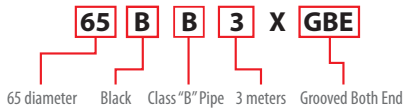
Example No. 2 - Steel Pipe 65 diameter (Galvanized 'C') - Part no. **50G3xGBE**
 Diameter ø : 65mm, 80mm, 100mm, 150mm, 200mm
 Standard Length : 3m and 6m
 Colors : Red, White or Galvanized



E.G. Ø65, 3.0 WITH 1 NO. SOCKET (PNM-65-02)

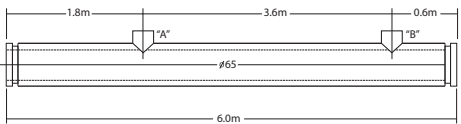


E.G. Ø65, 3.0 WITH 1 NO. SOCKET (PNM-65-02)



How to identify parts nos.

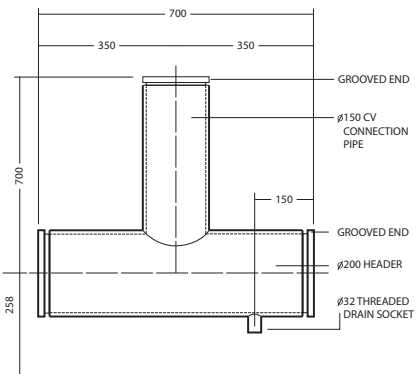
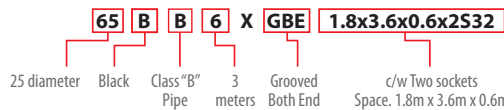
Example - Steel Pipe 65 diameter (Class 'B') - Part no. **65BB6xGBEx1.8x3.6x0.6x2S32**
 Diameter ø : 50mm, 80mm, 100mm & 150mm
 Standard Length : 3m and 6m
 Colors : Red, White or Galvanized



E.G. Ø65, 6.0M @ ODD LENGTH WITH 2 NO. SOCKETS (PNM-65-05)

D) Main Pipe (Grooved Both Ends c/w Welded Sockets)

Pipeline : Fire Pipe
 Standard : ASTM A53 (DN 65 to 200) / EN10255 (DN 65 to 150) / JIS G3452 (DN 200)
 Pipe Schedule : i) ASTM A53 (Standard)
 ii) EN10255 Medium (Class B) or Heavy (Class C)
 iii) JIS G3452 (Standard)
 Paint : Pipeline Multi Shield Epoxy Paint (Red / White)
 Paint Thickness : 80 ~100 micron



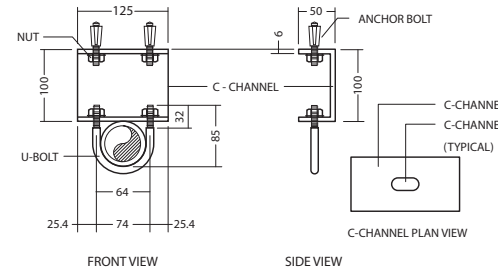
ø200 CONTROL VALVE HEADER WITH ONE ø150 CV CONNECTION (PNCV - 01)

E) Sprinkler Control Valve Manifold with One, Two or Three outlets of DN150mm Alarm Valve connection

Pipeline : Fire Pipe
 Model : 200M-GE-1x150AVGO
 Standard : EN10255 (DN 150) / JIS G3452 (DN 200) - Outside Diameter: 216mm
 Pipe Schedule : i) ASTM A53 (Standard)
 ii) EN10255 Medium (Class B) or Heavy (Class C)
 iii) JIS G3452 (Standard)
 Paint : Pipeline Multi Shield Epoxy Paint (Red / White)
 Paint Thickness : 80 ~100 micron

How to identify parts nos.

Example - Steel Pipe 200 diameter - Part no. **200M-GE-1x150AVGO**
 Diameter ø : 200mm (OD: 216mm)
 Standard Length : 0.7m, 1.4m, 2.1m, 2.8m
 Colors : Red, White or Galvanized



F) Pipe Support - GI C Channel Bracket c/w U-Bolt

Pipeline : "C" Channel with 4 holes c/w 50mm "U" bolt
 Model : CB100x50x5x125x4Hx50UB

How to identify parts nos.

Example No. 1 - "C" Channel with 4 holes c/w 50mm "U" bolt - Part no. : **CB100x50x5x125x4Hx50UB**
 Standard: EN10025 S275JR, EN 10025 S335JR, JIS G3101 S5400
 Standard Length: 125mm, 140mm, 155mm, 185mm, 233mm
 Material: Galvanized Steel



Flexible Sprinkler Fitting System & Flexible Dropper



FM Approval for Pipeline Flexible Sprinkler Hose Systems

FD25B Flexible Dropper

Pipeline® Flexible Braided Sprinkler Hoses and Fittings for use in Commercial Suspended Ceilings

Pipeline Distribution now carries its very own line of Pipeline® flexible braided sprinkler hoses and fittings.

Designed in accordance with NFPA 13, 13D, and 13R for limited flexible application, Pipeline® flexible braided sprinkler hoses are made of premium corrosion resistant stainless steel and come with FM approved certification which certify that our items have been tested to strict conformity with construction standards.

Compared to conventional rigid piping, our flexible braided sprinkler hose enhances work efficiency by 50-70% as they are installed to the ceiling grids and therefore move with the ceiling as they settle, maintaining the ceiling plane.

Pipeline® flexible braided sprinkler hoses with fittings offer you:

1. Fast and dependable installation, outstanding performance and are much more cost effective during maintenance and retrofit applications.
2. Minimum on-site modifications required. The Dropper bracket reduces jobsite coordination as most ceiling boards can be installed with the bracket already in place. Reduce material handling, up to a third less weight than rigid pipe systems.
3. Easy to install, wide range of sizes to suit your every need. Pipeline® flexible braided sprinkler hoses comes in lengths from 700mm to 1,800mm and with a wide range of mounting brackets. Our specially designed brackets allow for an easy and fast installation even when an unskilled installer performs the task.

Pipeline® flexible braided sprinkler hoses with fittings. The preferred solution for easy installation, manpower savings and cost savings.



FABRICATED PIPE

PIPELINE PAINT SPECIFICATION

RECOMMENDED USAGE	A two pack multi purpose surface tolerance epoxy coating for the protection of pipe against corrosion
Colour / Texture	Single Red / White
Dry film thickness	100 - 200 micron
Drying time	20 minutes (Touch Dry), 3 Hours (Dry to handle)

WELDING SPECIFICATION

AWS B2.1 - Specification for Welding Procedure and Performance Qualification

ASME Boiler and Pressure Vessel Code Section IX - Welding and Brazing Qualification

OUR CERTIFICATIONS

PIPELINE Pre-fabricated pipes are manufactured to comply with the requirements of the following specifications

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證書 ◆ CERTIFICADO ◆ CERTIFICAT



TEST CERTIFICATE

This Certificate is issued to

Pipeline Distribution (S) Pte Ltd
22 Chin Bee Drive
Singapore 619870

FOR

Product: Black and Galvanized Steel Pipe

Brand/Model: Firepipe

Detail: Galvanized Steel and Black Steel (Class Medium)
Nominal Sizes (mm) : 32, 40, 50, 65, 80, 100, and 150
Galvanized Steel (Class Heavy) Nominal Sizes (mm) : 100 and 150


Specification: BS EN 10255 : 2004

Test Report: 7191011270-CHM-LSM, 7191008628-MEC11-2-CYW, 7191008628-MEC11-1A-CYW, 7191008628-MEC11-1B-CYW, 7191008628-CHM11-03-CES and 7191008628-CHM11-04A-LSM

Date of Test Report: 08 Jul 2011, 15 June 2011, 15 June 2011, 15 June 2011, 9 Jun 2011, 17 Jun 2011

Summary

A sample of product submitted was tested and was found to comply with the test requirements of the above standard(s).



Vics President (MEC)
TUV SUD PSB Pte Ltd

Certificate No:	Date of Original Issue:	Date of Last Revision:	Date of Expiry:
03170	17 Dec 2013	-	16 Dec 2015

This Certificate is part of a full report and should be read in conjunction with it. This Certificate remains the property of TÜV SÜD PSB Pte Ltd and shall be returned upon request. The use of this Certificate is subjected to the terms and conditions of the Test Certification Scheme.
Note: This Certificate is issued pursuant to the terms set out overleaf.

TÜV SÜD PSB Pte Ltd • 1 Science Park Drive . Singapore 118221

TUV®

QUALITY POLICY STATEMENT

The management and staff of Pipeline® Distribution (M) Sdn Bhd. are committed to ensure enhanced customer satisfaction, as well as continuous improvement of the Quality Management System (QMS).

Compliance with legal and other requirements

- + A COMPETENT AND HIGHLY SKILLED WORKFORCE
- + COMPETITIVE PRICING & HIGHER PRODUCTIVITY THROUGH COST-EFFECTIVE FABRICATION
- + GOOD CUSTOMER RELATIONSHIP AND RAPPORT
- + COMPLIANCE WITH APPLICABLE LEGAL AND OTHER REQUIREMENTS
- + CONSTANT REVIEW OF OUR QUALITY MANAGEMENT SYSTEM



Certificate of Registration

This is to certify that

Pipeline Distribution (M) Sdn Bhd

No. 11 Jalan Bioteknologi 3 Kawasan Perindustrian SiLC
Nusajaya 79200 Johor Darul Takzim

operates a quality management system which has been assessed as conforming to

ISO 9001:2008

for the scope of activities

Supply and fabrication of pipe works, assembly of control valves and skids for the fire protection systems.

Certificate No: **CIS/100078** Issue Date: **13 June 2013**
Valid until **12 June 2016** subject to adherence to the agreed ongoing audit programme, successful endorsement of certification following each audit and compliance with CI Regulations



Signed for and on behalf of

Authorised Signatory




Certification International (Singapore) Pte Ltd., 40 Albert Street # 13-03 OG Albert Complex Singapore 189969 Reg. No.: 199409508E
The use of the SAC Accreditation Mark indicates accreditation in respect of those activities covered by the accreditation certificate number GS-1999-05.

www.cert-ints.com.sg

FM Approval for Pipeline Flexible Sprinkler Hose Systems



PROJECT REFERENCES

Pipeline® is proud to have delivered many fire protection pipe solutions to our valued clients. Across industries, our superior product is used in our projects in Malaysia, Singapore, Thailand and Vietnam.

SINGAPORE

COMMERCIAL BUILDINGS

Somerset 313
 Fusionopolis
 Great World City
 Singapore Post Centre
 Paragon Shopping Centre
 Vivocity
 Republic Plaza
 OCBC Centre
 Habourfront Mall

AVIATION PROJECTS

SIA Hanger 1
 SIAEC Hanger 3
 Changi Airport Control Tower
 Changi Airport Terminal 1
 Changi Airport Terminal 1&2
 (Finger Pier)

HOTELS

Crown Prince Hotel
 King Centre
 Hotel Rendezvous
 Shangri-La Hotel
 Premier Apartment
INTEGRATED RESORTS / CASINO
 Marina Bay Sands
 Resort World Singapore

OFFSHORE & MARINE

Belanak FSO
 Petrobras MV 18,20,22
 Bunga Orkid Project
 Kumang Cluster
 Dragon Tortoise Gas

POWER PLANT

Senoko Power Station
 Seraya Power Plant
 Ayer Rajah Sub Station
 Marina Barrage Sub Station

HOSPITALS

Singapore General Hospital
 National Eye Centre
 Thomas Medical Extension
 Ren Ci Hospital
 Novena Parkway Hospital

MALAYSIA

Biocon (M+W Group) at SILC
 Aircraft Hangar at Senai Airport
 Summerscape Condominium
 Connoisseur Tower Condominium

Toyo-Thai Corporation PCL, (PSB Gebang Solar Power Plant)
 Titan Tpp Plant
 Tanjung Langsat Oil Terminal
 Kinabalu NAG Development Project

OVERSEAS PROJECTS

THAILAND (PPOG)

Onshore Compressor Station No.4 in Map Tha Phut
 PTTGC Heavy Gas to Olefins Plant - FM200 System
 PTT Saiyok compressor station #4 - Fire Alarm System
 PTTGC Phenol II Plant - Fire Fighting & CO2 System
 Power Plant at Navanakorn Industrial - Gas Detection
 PTTGC Heavy Gas to Olefins Plant - Fire Alarm Equipment
 IRPC UHV Plant - Inergen System Pipe & Fittings

VIETNAM

AES - VCM Mong Duong Power Company Limited
 Tan Son Nhat International Airport
 Dinh Vu Jetty in Dinh Vu Industrial Zone (DVIZ)

MYANMAR

Sedona Hotel Project

BANGLADESH

IBMS, Siddhirganj Power Plant Bangladesh