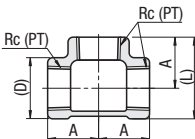
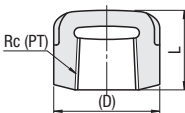
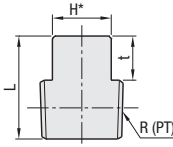
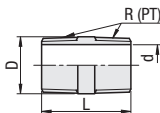
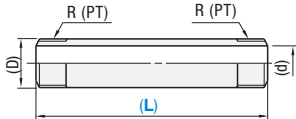
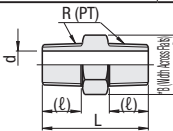


Low Pressure Steel Pipe Fittings (Equal Size Pipe Threads)

Tees / Caps / Plug / Round Nipples / Double Long Nipples / Hexagon Nipples

Low Pressure Steel Pipe Fittings – Tees  RoHS10	<table><tr><th>Type</th><th>Material</th><th>Surface Treatment</th></tr><tr><td>SGPPT</td><td>FCMB270</td><td>Hot Zinc Plating</td></tr><tr><td>SUTPT</td><td>CF-8 Stainless Steel Cast</td><td>—</td></tr></table>	Type	Material	Surface Treatment	SGPPT	FCMB270	Hot Zinc Plating	SUTPT	CF-8 Stainless Steel Cast	—			
	Type	Material	Surface Treatment										
SGPPT	FCMB270	Hot Zinc Plating											
SUTPT	CF-8 Stainless Steel Cast	—											
													
Low Pressure Steel Pipe Fittings – Caps 	<table><tr><th>Type</th><th>Material</th><th>Surface Treatment</th></tr><tr><td>SGPPC</td><td>FCMB270</td><td>Hot Zinc Plating</td></tr><tr><td>SUTPC</td><td>CF-8 Stainless Steel Cast</td><td>—</td></tr></table>	Type	Material	Surface Treatment	SGPPC	FCMB270	Hot Zinc Plating	SUTPC	CF-8 Stainless Steel Cast	—			
	Type	Material	Surface Treatment										
SGPPC	FCMB270	Hot Zinc Plating											
SUTPC	CF-8 Stainless Steel Cast	—											
													
Low Pressure Steel Pipe Fittings – Plug  RoHS10	<table><tr><th>Type</th><th>Material</th><th>Surface Treatment</th></tr><tr><td>SGPPP</td><td>SWCH10R Equiv.</td><td>Trivalent Chromate</td></tr><tr><td>SUPPP</td><td>CF-8 Stainless Steel Cast</td><td>—</td></tr></table>	Type	Material	Surface Treatment	SGPPP	SWCH10R Equiv.	Trivalent Chromate	SUPPP	CF-8 Stainless Steel Cast	—			
	Type	Material	Surface Treatment										
SGPPP	SWCH10R Equiv.	Trivalent Chromate											
SUPPP	CF-8 Stainless Steel Cast	—											
													
Low Pressure Steel Pipe Fittings – Round Nipples  RoHS10	<table><tr><th>Type</th><th>Material</th><th>Surface Treatment</th></tr><tr><td>SGPNP</td><td>SGP</td><td>Hot Zinc Plating</td></tr><tr><td>SUTNP</td><td>304 Stainless Steel</td><td>—</td></tr></table>	Type	Material	Surface Treatment	SGPNP	SGP	Hot Zinc Plating	SUTNP	304 Stainless Steel	—			
	Type	Material	Surface Treatment										
SGPNP	SGP	Hot Zinc Plating											
SUTNP	304 Stainless Steel	—											
													
Low Pressure Steel Pipe Fittings – Double Long Nipples  RoHS10	<table><tr><th>Type</th><th>Material</th><th>Surface Treatment</th></tr><tr><td>SGPNPR</td><td>SGP</td><td>Hot Zinc Plating</td></tr><tr><td>SUTNPR</td><td>304 Stainless Steel</td><td>—</td></tr></table>	Type	Material	Surface Treatment	SGPNPR	SGP	Hot Zinc Plating	SUTNPR	304 Stainless Steel	—			
	Type	Material	Surface Treatment										
SGPNPR	SGP	Hot Zinc Plating											
SUTNPR	304 Stainless Steel	—											
													
Low Pressure Steel Pipe Fittings – Hexagon Nipples  RoHS10	<table><tr><th>Type</th><th>Material</th><th>Surface Treatment</th></tr><tr><td>SGPNR</td><td>FCMB270</td><td>Hot Zinc Plating</td></tr><tr><td>SUTNR</td><td>CF-8 Stainless Steel Cast</td><td>—</td></tr><tr><td>SUTNRS</td><td>CF-8M Stainless Steel Cast</td><td>—</td></tr></table>	Type	Material	Surface Treatment	SGPNR	FCMB270	Hot Zinc Plating	SUTNR	CF-8 Stainless Steel Cast	—	SUTNRS	CF-8M Stainless Steel Cast	—
	Type	Material	Surface Treatment										
SGPNR	FCMB270	Hot Zinc Plating											
SUTNR	CF-8 Stainless Steel Cast	—											
SUTNRS	CF-8M Stainless Steel Cast	—											
													

Operating Conditions of Fittings

Fluid State	Max. Operating Pressure (MPa)
Steam / Air / Gas / Oil: Up to 300°C	1.0
Steam / Air / Oil / Pulsating Water: Up to 200°C	1.4
Static Flow Water: Up to 120°C	2.0



Part Number Example
SGPPT8A
SGPNR8A - 75

*Pulsating Water is a stream of water that is generated under steady operating conditions and variation of pressure and flow rate occurs in cycles. (Except for transitional change).

*Static Flow Water is a non-pulsating stream of water.

*As fittings are cast products, () dimensions such as (D) and (L2) are for reference, not guaranteed.

Part Number		Rc (PT)	(D)	(L)	A	(D)	(L)	A
Type	No.		SGPPT			SUTPT		
SGPPT SUTPT	6A	1/8	15	24.5	17	18	28	19
	8A	1/4	19	28.5	19	22	30	19
	10A	3/8	23	34.5	23	26	36	23
	15A	1/2	27	40.5	27	30	42	27
	20A	3/4	33	48.5	32	36	50	32
	25A	1	41	58.5	38	44	60	38
	32A	1 1/4	50	71	46	53	72.5	46
	40A	1 1/2	56	76	48	60	78	48
	50A	2	69	91.5	57	73	93.5	57

Part Number		Rc (PT)	(D)	L	(D)	L
Type	No.		SGPPC		SUTPC	
SGPPC SUTPC	6A	1/8	19	14	18	16
	8A	1/4	22	15	22	18
	10A	3/8	23	17	26	20
	15A	1/2	27	20	30	21
	20A	3/4	33	24	36	24
	25A	1	41	28	44	28
	32A	1 1/4	50	30	53	30
	40A	1 1/2	56	32	60	32
	50A	2	69	36	73	36

Part Number		R (PT)	Square Size H	t	L	
Type	No.				SGPPP	SUPPP
SGPPP SUPPP	6A	1/8	7	7	16	16
	8A	1/4	9	8	19	19
	10A	3/8	12	9	21	21
	15A	1/2	14	10	26	25
	20A	3/4	17	11	29	28
	25A	1	19	12	31	31
	32A	1 1/4	23	13	35	35
	40A	1 1/2	26	14	36	36
	50A	2	32	15	41	41

* Shape of H Part: No.6A–50A = Square

Part Number		R (PT)	D	L	d	
Type	No.				SGPNP	SUTNP
SGPNP SUTNP	6A	1/8	10.5	24	6.5	6.5
	8A	1/4	13.8	26	8.7	9.7
	10A	3/8	17.3	28	12.1	13.1
	15A	1/2	21.7	34	15.8	15.5
	20A	3/4	27.2	38	21.6	21.3
	25A	1	34.0	42	27.8	28.1
	32A	1 1/4	42.7	50	35.9	35.8
	40A	1 1/2	48.6	50	41.9	41.8
	50A	2	60.5	58	53.2	53.6

Part Number		(L)	R (PT)	(D)		(d)		Available Types							
Type	No.			SGPNPR	SUTNPR	SGPNPR	SUTNPR	L50	L75	L100	L125	L50	L75	L100	L125
SGPNPR SUTNPR	6A	50 75 100 125	1/8	10.5	—	6.2	—	•	•	•	•	•	•	•	•
	8A		1/4	13.4	13.8	9.2	9.4	•	•	•	•	•	•	•	•
	10A		3/8	17.4	17.3	12.9	12.7	•	•	•	•	•	•	•	•
	15A		1/2	21.9	21.7	16.5	16.1	•	•	•	•	•	•	•	•
	20A		3/4	27.2	27.2	21.5	21.4	•	•	•	•	•	•	•	•

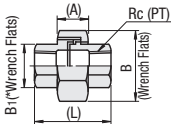
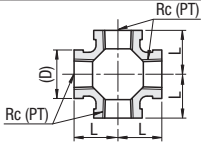
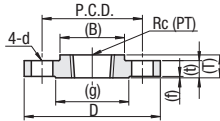
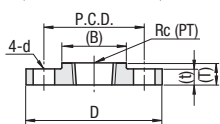
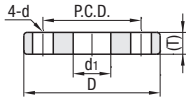
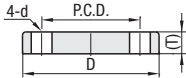
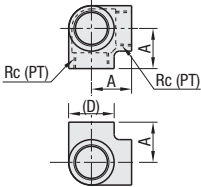
Part Number		R (PT)	B	L	(l)	d		Available Types							
Type	No.					SGPNR	SUTNR	SUTNRS	1–9 pcs(s).	10–29 pcs.	1–19 pcs(s).	20–49 pcs.	1–19 pcs(s).	20–49 pcs.	
SGPNR SUTNR SUTNRS	6A	1/8	14	32	11	5	5	5	•	•	•	•	•	•	•
	8A	1/4	17	34	13.5	7	7	6.8	•	•	•	•	•	•	•
	10A	3/8	21	36	13.5	9	9	9	•	•	•	•	•	•	•
	15A	1/2	26	42	18	13	13	13.2	•	•	•	•	•	•	•
	20A	3/4	32	47	19.5	18	16	15.8	•	•	•	•	•	•	•
	25A	1	38	52	20.5	24	22	21.7	•	•	•	•	•	•	•
	32A	1 1/4	46	56	22.5	32	30	30.1	•	•	•	•	•	•	•
	40A	1 1/2	54	60	23.5	37	35	—	•	•	•	•	•	•	•
	50A	2	63	66	25.5	48	47	—	•	•	•	•	•	•	•

* Shape of B Part: No.6A–40A=Hex, 50A=Octagon ○ SUTNRS is not available for part type No. 40A and 50A.

Low Pressure Steel Pipe Fittings (Equal Size Pipe Threads)

Unions / Cross / Flange / Flange for Welding / Blind Flanged for Welding / 3-Way Elbow

Feature: These fittings can be removed by loosening the nuts, and thus, require no twist of pipes themselves.

Low Pressure Steel Pipe Fittings – Unions  RoHS10	<table><tr><th>Type</th><th>Material</th><th>Surface Treatment</th></tr><tr><td>SGPPU</td><td>FCMB270</td><td>Hot Zinc Plating</td></tr><tr><td>SUTPU</td><td>CF-8 Stainless Steel Cast</td><td>—</td></tr></table> 	Type	Material	Surface Treatment	SGPPU	FCMB270	Hot Zinc Plating	SUTPU	CF-8 Stainless Steel Cast	—
Type	Material	Surface Treatment								
SGPPU	FCMB270	Hot Zinc Plating								
SUTPU	CF-8 Stainless Steel Cast	—								
Low Pressure Steel Pipe Fittings – Cross  RoHS10	<table><tr><th>Type</th><th>Material</th><th>Surface Treatment</th></tr><tr><td>SGPCS</td><td>FCMB270</td><td>Hot Zinc Plating</td></tr><tr><td>SUTCS</td><td>CF-8 Stainless Steel Cast</td><td>—</td></tr></table> 	Type	Material	Surface Treatment	SGPCS	FCMB270	Hot Zinc Plating	SUTCS	CF-8 Stainless Steel Cast	—
Type	Material	Surface Treatment								
SGPCS	FCMB270	Hot Zinc Plating								
SUTCS	CF-8 Stainless Steel Cast	—								
Low Pressure Steel Pipe Fittings – Flange  RoHS10	<table><tr><th>Type</th><th>Material</th><th>Surface Treatment</th></tr><tr><td>SGPFR</td><td>FCMB270</td><td>Hot Zinc Plating</td></tr><tr><td>SUTFR</td><td>304 Stainless Steel</td><td>—</td></tr></table> SGPFR  SUTFR 	Type	Material	Surface Treatment	SGPFR	FCMB270	Hot Zinc Plating	SUTFR	304 Stainless Steel	—
Type	Material	Surface Treatment								
SGPFR	FCMB270	Hot Zinc Plating								
SUTFR	304 Stainless Steel	—								
Low Pressure Steel Pipe Fittings – Flange for Welding  RoHS10	<table><tr><th>Type</th><th>Material</th></tr><tr><td>SGPFRW</td><td>1018 Carbon Steel or Equivalent</td></tr><tr><td>SUTFRW</td><td>304 Stainless Steel</td></tr></table> 	Type	Material	SGPFRW	1018 Carbon Steel or Equivalent	SUTFRW	304 Stainless Steel			
Type	Material									
SGPFRW	1018 Carbon Steel or Equivalent									
SUTFRW	304 Stainless Steel									
Low Pressure Steel Pipe Fittings – Blind Flanged for Welding  RoHS10	<table><tr><th>Type</th><th>Material</th></tr><tr><td>SGPFRB</td><td>1018 Carbon Steel or Equivalent</td></tr><tr><td>SUTFRB</td><td>304 Stainless Steel</td></tr></table> 	Type	Material	SGPFRB	1018 Carbon Steel or Equivalent	SUTFRB	304 Stainless Steel			
Type	Material									
SGPFRB	1018 Carbon Steel or Equivalent									
SUTFRB	304 Stainless Steel									
Low Pressure Steel Pipe Fittings – 3-Way Elbow  RoHS10	<table><tr><th>Type</th><th>Material</th><th>Surface Treatment</th></tr><tr><td>SGSTL</td><td>FCMB270</td><td>Hot Zinc Plating</td></tr></table> 	Type	Material	Surface Treatment	SGSTL	FCMB270	Hot Zinc Plating			
Type	Material	Surface Treatment								
SGSTL	FCMB270	Hot Zinc Plating								

Part Number		Rc (PT)	B ₁	(L)	(A)	B	B ₁	(L)	(A)	B
Type	No.		SGPPU			SUTPU				
SGPPU SUTPU	6A	1/8	15	30	13	25	14	30	13	25
	8A	1/4	19	33.5	13.5	31	18	33.5	13.5	31
	10A	3/8	23	38	16	37	22	37.5	16	37
	15A	1/2	27	41	17	42	26	40.5	17	42
	20A	3/4	33	51	18.5	49	32	42.5	17	50
	25A	1	41	54	20	59	41	51	20	59

* Shape of B₁ Part: SUTPU6A / 8A: 2-Flat / SUTPU10A, /15A: Hex / SUTPU20A / 25A: Octagon / SGPPU: Octagon

Part Number		Rc (PT)	(D)	L	(D)	L
Type	No.		SGPCS		SUTCS	
SGPCS SUTCS	8A	1/4	19	19	22	19
	10A	3/8	23	23	26	23
	15A	1/2	27	27	30	27
	20A	3/4	33	32	36	32
	25A	1	41	38	44	38

Part Number		Rc (PT)	D	(T)	(t)	(B)	(f)	(g)	P.C.D.	d	Applicable Bolt Diameter
SGPFR	15A	1/2	95	18	12	38	1	51	70	15	M12
	20A	3/4	100	19	14	42	1	56	75	15	M12
	25A	1	125	23	14	49	1	67	90	19	M16
	32A	1 1/4	135	25	16	64	2	76	100	19	M16
	40A	1 1/2	140	25	16	68	2	81	105	19	M16
	50A	2	155	29	16	82	2	96	120	19	M16

Part Number		Rc (PT)	D	(T)	(t)	(B)	P.C.D.	d	Applicable Bolt Diameter
SUTFR	15A	1/2	95	16	12	30	70	15	M12
	20A	3/4	100	20	14	36	75	15	M12
	25A	1	125	20	14	44	90	19	M16
	32A	1 1/4	135	22	16	53	100	19	M16
	40A	1 1/2	140	24	16	60	105	19	M16
	50A	2	155	24	16	73	120	19	M16

Part Number		D	(T)	P.C.D.	d	d ₁	Applicable Bolt Diameter
SGPFRW SUTFRW	10A	90	12	65	15	17.8	M12
	15A	95	12	70	15	22.2	M12
	20A	100	14	75	15	27.7	M12
	25A	125	14	90	19	34.5	M16

Part Number		D	(T)	P.C.D.	d	Applicable Bolt Diameter
SGPFRB SUTFRB	10A	90	12	65	15	M12
	15A	95	12	70	15	M12
	20A	100	14	75	15	M12
	25A	125	14	90	19	M16

Part Number		Rc (PT)	(D)	A
SGSTL	15A	1/2	27	27
	20A	3/4	33	32
	25A	1	41	38

Operating Conditions of Fittings

Fluid State	Max. Operating Pressure Mpa
Steam / Air / Gas / Oil: Up to 300°C	1.0
Steam / Air / Oil / Pulsating Water: Up to 200°C	1.4
Static Flow Water: Up to 120°C	2.0

*Pulsating Water is a stream of water that is generated under steady operating conditions and variation of pressure and flow rate occurs in cycles. (Except for transitional change)

*Static Flow Water is a non-pulsating stream of water.

*As fittings are cast products, () dimensions such as (D) and (T) are for reference, not guaranteed.