

grooved pipe fittings



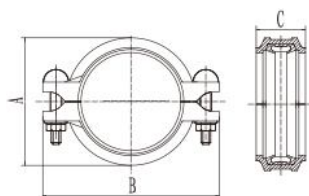
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Rigid Coupling

刚性卡箍

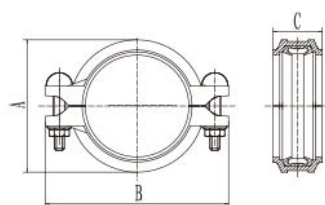


Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions mm/in			Bolt Size
			A mm/in	B mm/in	C mm/in	No.-Size mm
规格	管子基本 尺寸	工作压力	尺寸			螺栓
25 1	33.7 1.327	300 psi 2.07 Mpa	56 2.20	98 3.85	44 1.74	3/8*45-2
32 1¼	42.4 1.669		65 2.55	108 4.25	44 1.74	3/8*45-2
40 1½	48.3 1.9		72 2.84	114 4.48	44 1.74	3/8*45-2
50 2	60.3 2.375		84 3.30	126 4.96	46 1.81	3/8*55-2
65 2½	73 2.875		97 3.81	140 5.52	46 1.81	3/8*55-2
65 2½	76.1 3		100 3.93	142 5.59	46 1.81	3/8*55-2
80 3	88.9 3.5		114 4.48	154 6.06	46 1.81	3/8*55-2
100 4	108 4.25		135 5.31	186 7.32	50 1.96	1/2*65-2
100 4	114.3 4.5		138 5.43	192 7.55	50 1.96	1/2*65-2
125 5	133 5.25		162 6.37	213 8.38	50 1.96	1/2*75-2
125 5	139.7 5.5		170 6.73	220 8.66	50 1.96	1/2*75-2
125 5	141.3 5.563		171 6.73	222 8.74	50 1.96	1/2*75-2
150 6	159 6.25		190 7.48	241 9.48	50 1.96	1/2*75-2
150 6	165.1 6.5		196 7.71	248 9.76	50 1.96	1/2*75-2
150 6	168.3 6.625		200 7.87	252 9.92	50 1.96	1/2*75-2
200 8	219.1 8.625		258 10.15	322 12.67	60 2.36	5/8*95-2
250 10	273 10.75		318 12.51	400 15.74	62 2.44	3/4*110-2
300 12	323.9 12.750		372 14.64	454 17.87	64 2.51	3/4*120-2

Flexible Coupling

挠性卡箍

XGQT2

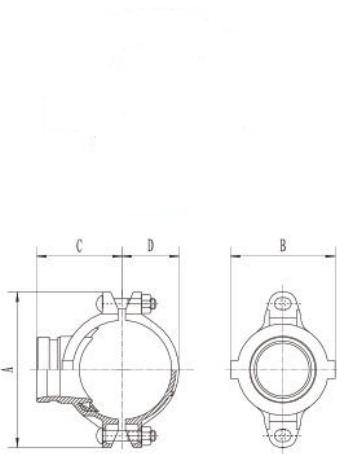


Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions mm/in			Bolt Size
			A mm/in	B mm/in	C mm/in	No.-Size mm
规格	管子基本 尺寸	工作压力	尺寸			螺栓
25 1	33.7 1.327	300 psi 2.07 Mpa	56 2.20	98 3.85	44 1.74	3/8*45-2
32 1¼	42.4 1.669		65 2.55	108 4.25	44 1.74	3/8*45-2
40 1½	48.3 1.9		72 2.84	114 4.48	44 1.74	3/8*45-2
50 2	60.3 2.375		84 3.30	126 4.96	46 1.81	3/8*55-2
65 2½	73 2.875		97 3.81	140 5.52	46 1.81	3/8*55-2
65 2½	76.1 3		100 3.93	142 5.59	46 1.81	3/8*55-2
80 3	88.9 3.5		114 4.48	154 6.06	46 1.81	3/8*55-2
100 4	108 4.25		135 5.31	186 7.32	50 1.96	1/2*65-2
100 4	114.3 4.5		138 5.43	192 7.55	50 1.96	1/2*65-2
125 5	133 5.25		162 6.37	213 8.38	50 1.96	1/2*75-2
125 5	139.7 5.5		170 6.73	220 8.66	50 1.96	1/2*75-2
125 5	141.3 5.563		171 6.73	222 8.74	50 1.96	1/2*75-2
150 6	159 6.25		190 7.48	241 9.48	50 1.96	1/2*75-2
150 6	165.1 6.5		196 7.71	248 9.76	50 1.96	1/2*75-2
150 6	168.3 6.625		200 7.87	252 9.92	50 1.96	1/2*75-2
200 8	219.1 8.625		258 10.15	322 12.67	60 2.36	5/8*95-2
250 10	273 10.75		318 12.51	400 15.74	62 2.44	3/4*110-2
300 12	323.9 12.750		372 14.64	454 17.87	64 2.51	3/4*120-2

Mechanical Tee Grooved outlet

沟槽式机械三通

XGQT3

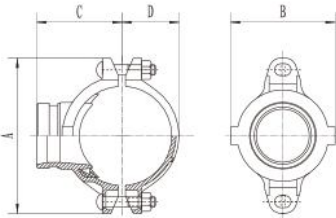


Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Hole Dia. Mm/in +1.6,0/+0.063,0	Dimensions mm/in				Bolt Size
规格	管子基本尺寸	工作压力	开孔尺寸	A	B	C	D	螺栓规格
50 × 25 2 × 1	60.3 × 33.7 2.375 × 1.315	300 psi 2.07 Mpa	38 1.50	118 4.64	71 2.80	69 2.71	40 1.57	3/8*55-2
50 × 32 2 × 1¼	60.3 × 42.4 2.375 × 1.660		46 1.81	118 4.64	75 2.95	69 2.71	40 1.57	3/8*55-2
50 × 40 2 × 1½	60.3 × 48.3 2.375 × 1.900		46 1.81	118 4.64	75 2.95	69 2.71	40 1.57	3/8*55-2
65 × 25 2½ × 1	73.0 × 33.7 2.875 × 1.315		38 1.50	133 5.23	72 2.83	77 3.03	47 1.85	3/8*55-2
65 × 32 2½ × 1¼	73.0 × 42.4 2.875 × 1.660		46 1.81	133 5.23	81 3.18	77 3.03	47 1.85	3/8*55-2
65 × 40 2½ × 1½	73.0 × 48.3 2.875 × 1.900		53 2.08	133 5.23	86 3.38	77 3.03	47 1.85	3/8*55-2
65 × 25 2½ × 1	76.1 × 33.7 3.000 × 1.315		38 1.50	136 5.35	72 2.83	78 3.07	49 1.93	3/8*55-2
65 × 32 2½ × 1¼	76.1 × 42.4 3.000 × 1.660		46 1.81	136 5.35	81 3.18	78 3.07	49 1.93	3/8*55-2
65 × 40 2½ × 1½	76.1 × 48.3 3.000 × 1.900		53 2.08	136 5.35	86 3.38	78 3.07	49 1.93	3/8*55-2
80 × 25 3 × 1	88.9 × 33.7 3.500 × 1.315		38 1.50	150 5.98	73 2.87	85 3.33	56 2.20	3/8*55-2
80 × 32 3 × 1¼	88.9 × 42.4 3.500 × 1.660		46 1.81	150 5.98	82 3.22	85 3.33	56 2.20	3/8*55-2
80 × 40 3 × 1½	88.9 × 48.3 3.500 × 1.900		53 2.08	150 5.90	87 3.42	85 3.33	56 2.20	3/8*55-2
80 × 50 3 × 2	88.9 × 60.3 3.500 × 2.375		61 2.40	150 5.90	100 3.93	85 3.33	56 2.20	3/8*55-2
80 × 65 3 × 2½	88.9 × 73.0 3.500 × 2.875		61 2.40	150 5.90	100 3.93	85 3.33	56 2.20	3/8*55-2
80 × 65 3 × 2½	88.9 × 76.1 3.500 × 3.000		61 2.40	150 5.90	100 3.93	85 3.33	56 2.20	3/8*55-2
100 × 50 4 × 2	108.0 × 60.3 4.250 × 2.375		61 2.40	172 6.77	106.5 4.19	92 3.78	64.5 2.54	1/2*65-2
100 × 65 4 × 2½	108.0 × 76.1 4.250 × 3.000		81 3.18	172 6.77	106.5 4.19	92 3.78	64.5 2.54	1/2*65-2
100 × 25 4 × 1	114.3 × 33.7 4.500 × 1.315		38 1.50	182 7.16	73 2.87	99 3.90	70 2.76	1/2*65-2
100 × 32 4 × 1¼	114.3 × 42.4 4.500 × 1.660		46 1.81	182 7.16	82 3.22	99 3.90	70 2.76	1/2*65-2
100 × 40 4 × 1½	114.3 × 48.3 4.500 × 1.900		53 2.08	182 7.16	87 3.42	99 3.90	70 2.76	1/2*65-2
100 × 50 4 × 2	114.3 × 60.3 4.500 × 2.375		61 2.40	182 7.16	100 3.93	99 3.90	70 2.76	1/2*65-2
100 × 65 4 × 2½	114.3 × 73.0 4.500 × 2.875		81 3.18	182 7.16	118 4.64	99 3.90	70 2.76	1/2*65-2
100 × 65 4 × 2½	114.3 × 76.1 4.500 × 3.000		81 3.18	182 7.16	118 4.64	99 3.90	70 2.76	1/2*65-2
100 × 80 4 × 3	114.3 × 88.9 4.500 × 3.500		86 3.38	182 7.16	124 4.88	99 3.90	70 2.76	1/2*65-2

Mechanical Tee Grooved outlet

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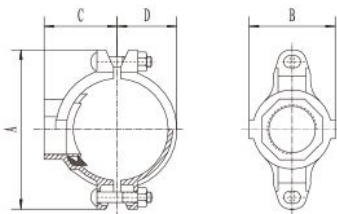
XGQT3



Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Hole Dia. Mm/in +1.6,0/+0.063,0	Dimensions mm/in				Bolt Size
规格	管子基本尺寸	工作压力	开孔尺寸	A	B	C	D	螺栓规格
125×50 5×2	139.7×60.3 5.500×2.375	300 psi 2.07 Mpa	61 2.40	215 8.46	102 4.01	113 4.44	83 3.26	1/2*75-2
125×65 5×2½	139.7×76.1 5.500×3.000		81 3.18	215 8.46	119 4.68	113 4.44	83 3.26	1/2*75-2
125×80 5×3	139.7×88.9 5.500×3.500		86 3.38	215 8.46	134 5.27	113 4.44	83 3.26	1/2*75-2
125×100 5×4	139.7×114.3 5.500×4.500		114 4.48	215 8.46	158 6.22	115 4.52	83 3.26	1/2*75-2
125×50 5×2	141.3×60.3 5.563×2.375		61 2.40	215 8.46	102 4.01	114 4.48	83 3.26	1/2*75-2
125×65 5×2½	141.3×76.1 5.563×3.000		81 3.18	215 8.46	119 4.64	114 4.48	83 3.26	1/2*75-2
125×80 5×3	141.3×88.9 5.563×3.500		86 3.38	215 8.46	134 5.27	114 4.48	83 3.26	1/2*75-2
125×100 5×4	141.3×114.3 5.563×4.500		114 4.48	215 8.46	158 6.22	115 4.52	83 3.26	1/2*75-2
150×50 6×2	159.0×60.3 6.250×2.375		61 2.40	230 9.05	98 3.85	123 4.84	90 3.54	9/16*75-2
150×65 6×2½	159.0×76.1 6.250×3.000		81 3.18	230 9.05	121 4.76	123 4.84	90 3.54	9/16*75-2
150×80 6×3	159.0×88.9 6.250×3.500		86 3.38	230 9.05	134 5.27	123 4.84	90 3.54	9/16*75-2
150×100 6×4	159.0×108.0 6.250×4.250		114 4.48	230 9.05	155 6.10	123 4.84	90 3.54	9/16*75-2
150×100 6×4	159.0×114.3 6.250×4.500		114 4.48	230 9.05	155 6.10	123 4.84	90 3.54	9/16*75-2
150×50 6×2	165.1×60.3 6.500×2.375		61 2.40	240 9.44	102 4.01	126 4.96	96 3.77	9/16*75-2
150×65 6×2½	165.1×76.1 6.500×3.000		81 3.18	240 9.44	119 4.68	126 4.96	96 3.77	9/16*75-2
150×80 6×3	165.1×88.9 6.500×3.500		86 3.38	240 9.44	134 5.27	126 4.96	96 3.77	9/16*75-2
150×100 6×4	165.1×114.3 6.500×4.500		114 4.48	240 9.44	158 6.22	128 5.04	96 3.77	9/16*75-2
150×50 6×2	168.3×60.3 6.625×2.375		61 2.40	244 9.60	102 4.01	128 5.04	97 3.81	9/16*75-2
150×65 6×2½	168.3×73.0 6.625×2.875		81 3.18	244 9.60	119 4.68	128 5.04	97 3.81	9/16*75-2
150×65 6×2½	168.3×76.1 6.625×3.000		81 3.18	244 9.60	119 4.68	128 5.04	97 3.81	9/16*75-2
150×80 6×3	168.3×88.9 6.625×3.500		86 3.38	244 9.60	134 5.27	128 5.04	97 3.81	9/16*75-2
150×100 6×4	168.3×114.3 6.625×4.500		114 4.48	244 9.60	158 6.22	130 5.11	97 3.81	9/16*75-2
200×50 8×2	219.1×60.3 8.625×2.375		61 2.40	308 12.12	102 4.01	153 6.02	124 4.88	5/8*95-2
200×65 8×2½	219.1×76.1 8.625×3.000		81 3.18	308 12.12	119 4.68	153 6.02	124 4.88	5/8*95-2
200×80 8×3	219.1×88.9 8.625×3.500		86 3.38	308 12.12	134 5.27	153 6.02	124 4.88	5/8*95-2
200×100 8×4	219.1×114.3 8.625×4.500		114 4.48	308 12.12	158 6.22	155 6.10	124 4.88	5/8*95-2

Mechanical Tee Threaded outlet

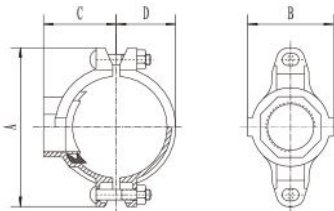
螺纹式机械三通
XGQT3S



Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Hole Dia. Mm/in +1.6,0/+0.063,0	Dimensions mm/in				Bolt Size
规格	管子基本尺寸	工作压力	开孔尺寸	A	B	C	D	螺栓规格
50×15 2×½	60.3×21.3 2.375×0.825	300 psi 2.07 Mpa	30 1.18	116 4.57	68 2.68	58 2.28	40 1.57	3/8*55-2
50×20 2×¾	60.3×26.9 2.375×1.050		30 1.18	116 4.57	68 2.68	58 2.28	39 1.53	3/8*55-2
50×25 2×1	60.3×33.7 2.375×1.315		38 1.50	118 4.64	71 2.80	58 2.36	40 1.57	3/8*55-2
50×32 2×1¼	60.3×42.4 2.375×1.660		46 1.81	118 4.64	75 2.95	60 2.56	40 1.57	3/8*55-2
50×40 2×1½	60.3×48.3 2.375×1.900		46 1.81	118 4.64	75 2.95	63 2.56	40 1.57	3/8*55-2
65×15 2½×½	73.0×21.3 2.875×0.825		30 1.18	144 5.66	71 2.80	66 2.72	49 1.93	3/8*55-2
65×20 2½×¾	73.0×26.9 2.875×1.050		30 1.18	144 5.66	71 2.80	66 2.72	49 1.93	3/8*55-2
65×25 2½×1	73.0×33.7 2.875×1.315		38 1.50	133 5.23	72 2.83	67 2.72	47 1.85	3/8*55-2
65×32 2½×1¼	73.0×42.4 2.875×1.660		46 1.81	133 5.23	81 3.18	69 2.87	47 1.85	3/8*55-2
65×40 2½×1½	73.0×48.3 2.875×1.900		53 2.08	133 5.23	86 3.38	69 2.87	47 1.85	3/8*55-2
65×15 2½×½	76.1×21.3 3.000×0.825		30 1.18	137 5.39	71 2.80	68 2.72	49.5 1.95	3/8*55-2
65×20 2½×¾	76.1×26.9 3.000×1.050		30 1.18	137 5.39	71 2.80	68 2.72	49.5 1.95	3/8*55-2
65×25 2½×1	76.1×33.7 3.000×1.315		38 1.50	136 5.35	72 2.83	69 2.72	49 1.93	3/8*55-2
65×32 2½×1¼	76.1×42.4 3.000×1.660		46 1.81	136 5.35	81 3.18	71 2.72	49 1.93	3/8*55-2
65×40 2½×1½	76.1×48.3 3.000×1.900		53 2.08	136 5.35	86 3.38	71 2.72	49 1.93	3/8*55-2
80×15 3×½	88.9×21.3 3.500×0.825		30 1.18	152 5.98	72.5 2.85	74 3.15	56.5 2.22	3/8*55-2
80×20 3×¾	88.9×26.9 3.500×1.050		30 1.18	152 5.98	72.5 2.85	74 3.15	56.5 2.22	3/8*55-2
80×25 3×1	88.9×33.7 3.500×1.315		38 1.50	150 5.98	73 2.87	75 3.15	56 2.20	3/8*55-2
80×32 3×1¼	88.9×42.4 3.500×1.660		46 1.81	150 5.98	82 3.22	77 3.15	56 2.20	3/8*55-2
80×40 3×1½	88.9×48.3 3.500×1.900		53 2.08	150 5.90	87 3.42	77 3.15	56 2.20	3/8*55-2

Mechanical Tee Threaded outlet

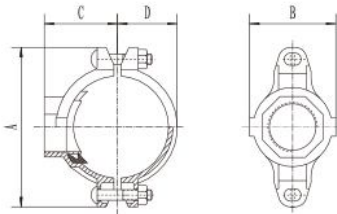
螺纹式机械三通
XGQT3S



Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Hole Dia. Mm/in +1.6,0/+0.063,0	Dimensions mm/in				Bolt Size
规格	管子基本尺寸	工作压力	开孔尺寸	A	B	C	D	螺栓规格
80 × 50 3 × 2	88.9 × 60.3 3.500 × 2.375	300 psi 2.07 Mpa	61 2.40	150 5.90	100 3.93	81 3.15	56 2.20	3/8*55-2
100 × 25 4 × 1	108.0 × 33.7 4.250 × 1.315		38 1.50	172 6.77	78.5 3.09	87 3.43	64.5 2.54	1/2*65-2
100 × 32 4 × 1¼	108.0 × 42.4 4.250 × 1.660		46 1.81	172 6.77	89 3.50	87 3.43	64.5 2.54	1/2*65-2
100 × 40 4 × 1½	108.0 × 48.3 4.250 × 1.900		53 2.08	172 6.77	89 3.50	87 3.43	64.5 2.54	1/2*65-2
100 × 50 4 × 2	108.0 × 60.3 4.250 × 2.375		61 2.40	172 6.77	106.5 4.19	92 3.62	64.5 2.54	1/2*65-2
100 × 65 4 × 2½	108.0 × 76.1 4.250 × 3.000		81 3.18	172 6.77	106.5 4.19	96 3.78	64.5 2.54	1/2*65-2
100 × 80 4 × 3	108.0 × 88.9 4.250 × 3.500		86 3.38	172 6.77	106.5 4.19	100 3.94	64.5 2.54	1/2*65-2
100 × 25 4 × 1	114.3 × 33.7 4.500 × 1.315		38 1.50	182 7.16	73 2.87	89 3.66	70 2.76	1/2*65-2
100 × 32 4 × 1¼	114.3 × 42.4 4.500 × 1.660		46 1.81	182 7.16	82 3.22	90 3.74	70 2.76	1/2*65-2
100 × 40 4 × 1½	114.3 × 48.3 4.500 × 1.900		53 2.08	182 7.16	87 3.42	90 3.82	70 2.76	1/2*65-2
100 × 50 4 × 2	114.3 × 60.3 4.500 × 2.375		61 2.40	182 7.16	100 3.93	95 3.62	70 2.76	1/2*65-2
100 × 65 4 × 2½	114.3 × 73.0 4.500 × 2.875		81 3.18	182 7.16	118 4.64	94 4.02	70 2.76	1/2*65-2
100 × 65 4 × 2½	114.3 × 76.1 4.500 × 3.000		81 3.18	182 7.16	118 4.64	94 4.02	70 2.76	1/2*65-2
100 × 80 4 × 3	114.3 × 88.9 4.500 × 3.500		86 3.38	182 7.16	124 4.88	100 4.02	70 2.76	1/2*65-2
125 × 25 5 × 1	133.0 × 33.7 5.250 × 1.315		38 1.50	208 8.18	74 2.91	100 4.13	79 3.11	1/2*75-2
125 × 32 5 × 1¼	133.0 × 42.4 5.250 × 1.660		46 1.81	208 8.18	83 3.26	101 4.13	79 3.11	1/2*75-2
125 × 40 5 × 1½	133.0 × 48.3 5.250 × 1.900		53 2.08	208 8.18	88 3.46	101 4.13	79 3.11	1/2*75-2
125 × 50 5 × 2	133.0 × 60.3 5.250 × 2.375		61 2.40	208 8.18	102 4.01	105 4.33	79 3.11	1/2*75-2
125 × 65 5 × 2½	133.0 × 76.1 5.250 × 3.000		81 3.18	208 8.18	119 4.68	103 4.53	79 3.11	1/2*75-2
125 × 80 5 × 3	133.0 × 88.9 5.250 × 3.500		86 3.38	208 8.18	134 5.27	110 4.65	79 3.11	1/2*75-2

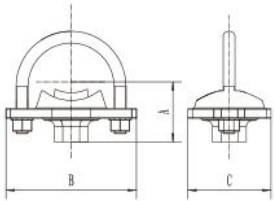
Mechanical Tee Threaded outlet

螺纹式机械三通
XGQT3S



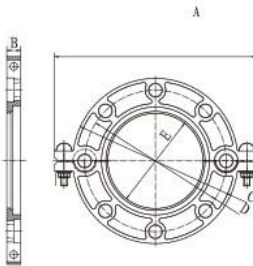
Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Hole Dia. Mm/in +1.6,0/+0.063,0	Dimensions mm/in				Bolt Size
规格	管子基本尺寸	工作压力	开孔尺寸	A	B	C	D	螺栓规格
125×25 5×1	139.7×33.7 5.500×1.315	300 psi 2.07 Mpa	38 1.50	215 8.46	74 2.91	103 4.33	83 3.26	1/2"75-2
125×32 5×1¼	139.7×42.4 5.500×1.660		46 1.81	215 8.46	83 3.26	104 4.41	83 3.26	1/2"75-2
125×40 5×1½	139.7×48.3 5.500×1.900		53 2.08	215 8.46	88 3.46	104 4.41	83 3.26	1/2"75-2
125×50 5×2	139.7×60.3 5.500×2.375		61 2.40	215 8.46	102 4.01	108 4.53	83 3.26	1/2"75-2
125×65 5×2½	139.7×76.1 5.500×3.000		81 3.18	215 8.46	119 4.68	108 4.53	83 3.26	1/2"75-2
125×80 5×3	139.7×88.9 5.500×3.500		86 3.38	215 8.46	134 5.27	113 4.72	83 3.26	1/2"75-2
125×25 5×1	141.3×33.7 5.563×1.315		38 1.50	215 8.46	74 2.91	103 4.33	84 3.31	1/2"75-2
125×32 5×1¼	141.3×42.4 5.563×1.660		46 1.81	215 8.46	83 3.26	104 4.41	84 3.31	1/2"75-2
125×40 5×1½	141.3×48.3 5.563×1.900		53 2.00	215 8.46	88 3.46	104 4.41	84 3.31	1/2"75-2
125×50 5×2	141.3×60.3 5.563×2.375		61 2.40	215 8.46	102 4.01	108 4.53	83 3.26	1/2"75-2
125×65 5×2½	141.3×76.1 5.563×3.000		81 3.18	215 8.46	119 4.64	108 4.53	83 3.26	1/2"75-2
125×80 5×3	141.3×88.9 5.563×3.500		86 3.38	215 8.46	134 5.27	114 4.72	83 3.26	1/2"75-2
150×25 6×1	159.0×33.7 6.250×1.315		38 1.50	244 9.60	78 3.07	116 4.57	94 3.70	9/16"75-2
150×32 6×1¼	159.0×42.4 6.250×1.660		46 1.81	244 9.60	93 3.66	118 4.65	94 3.70	9/16"75-2
150×40 6×1½	159.0×48.3 6.250×1.900		53 2.08	244 9.60	93 3.66	118 4.65	94 3.70	9/16"75-2
150×50 6×2	159.0×60.3 6.250×2.375		61 2.40	230 9.05	98 3.85	115 4.53	90 3.54	9/16"75-2
150×65 6×2½	159.0×76.1 6.250×3.000		81 3.18	230 9.05	121 4.76	125 4.92	90 3.54	9/16"75-2
150×80 6×3	159.0×88.9 6.250×3.500		86 3.38	230 9.05	134 5.27	125 4.92	90 3.54	9/16"75-2
150×100 6×4	159.0×114.3 6.250×4.500		114 4.48	230 9.05	155 6.10	130 5.12	90 3.54	9/16"75-2
150×25 6×1	165.1×33.7 6.500×1.315		38 1.50	240 9.44	74 2.91	117 4.65	96 3.77	9/16"75-2
150×32 6×1¼	165.1×42.4 6.500×1.660		46 1.81	240 9.44	83 3.26	118 4.65	97.5 3.84	9/16"75-2
150×40 6×1½	165.1×48.3 6.500×1.900		53 2.08	240 9.44	88 3.46	118 4.65	97.5 3.84	9/16"75-2
150×50 6×2	165.1×60.3 6.500×2.375		61 2.40	240 9.44	102 4.01	120 5.43	96 3.77	9/16"75-2
150×65 6×2½	165.1×76.1 6.500×3.000		81 3.18	240 9.44	119 4.68	121 5.43	96 3.77	9/16"75-2
150×80 6×3	165.1×88.9 6.500×3.500		86 3.38	240 9.44	134 5.27	126 5.43	96 3.77	9/16"75-2
150×100 6×4	165.1×114.3 6.500×4.500		114 4.48	240 9.44	158 6.22	132 5.32	96 3.77	9/16"75-2
150×25 6×1	168.3×33.7 6.625×1.315		38 1.50	244 9.60	74 2.91	119 5.12	97 3.81	9/16"75-2
150×32 6×1¼	168.3×42.4 6.625×1.660		46 1.81	244 9.60	83 3.26	120 5.12	98.5 3.88	9/16"75-2
150×40 6×1½	168.3×48.3 6.625×1.900		53 2.08	244 9.60	88 3.46	120 4.80	98.5 3.88	9/16"75-2
150×50 6×2	168.3×60.3 6.625×2.375		61 2.40	244 9.60	102 4.01	122 5.20	97 3.81	9/16"75-2
150×65 6×2½	168.3×73.0 6.625×2.875		81 3.18	244 9.60	119 4.68	123 5.20	97 3.81	9/16"75-2
150×65 6×2½	168.3×76.1 6.625×3.000		81 3.18	244 9.60	119 4.68	123 5.20	97 3.81	9/16"75-2
150×80 6×3	168.3×88.9 6.625×3.500		86 3.38	244 9.60	134 5.27	128 5.51	97 3.81	9/16"75-2
150×100 6×4	168.3×114.3 6.625×4.500		114 4.48	244 9.60	158 6.22	134 5.51	97 3.81	9/16"75-2
200×25 8×1	219.1×33.7 8.625×1.315		38 1.50	308 12.12	74 2.91	145 5.91	124 4.88	5/8"95-2
200×32 8×1¼	219.1×42.4 8.625×1.660		46 1.81	308 12.12	83 3.26	146 5.91	124 4.88	5/8"95-2
200×40 8×1½	219.1×48.3 8.625×1.900		53 2.08	308 12.12	88 3.46	146 5.91	124 4.88	5/8"95-2
200×50 8×2	219.1×60.3 8.625×2.375		61 2.40	308 12.12	102 4.01	149 6.30	124 4.88	5/8"95-2
200×65 8×2½	219.1×76.1 8.625×3.000		81 3.18	308 12.12	119 4.68	149 6.24	124 4.88	5/8"95-2
200×80 8×3	219.1×88.9 8.625×3.500		86 3.38	308 12.12	134 5.27	154 6.30	124 4.88	5/8"95-2
200×100 8×4	219.1×114.3 8.625×4.500		114 4.48	308 12.12	158 6.22	159 6.30	124 4.88	5/8"95-2

U-Bolt Mechanical Tee
 U型栓机械三通
 XGQT3US



Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Hole Dia. Mm/in +1.6,0/+0.063,0	Dimensions mm/in			Bolt Size
规格	管子基本尺寸	工作压力	开孔尺寸	A	B	C	螺栓规格
25×15 1×½	33.7*21.3 1.315*0.825	300 psi 2.07 Mpa	24 0.94	43 1.69	82 3.22	41 1.61	3/8*60-2
25×20 1×¾	33.7*26.9 1.315*1.050		24 0.94	45 1.77	82 3.22	41 1.61	3/8*60-2
32×15 1¼×½	42.4*21.3 1.660*0.825		30 1.18	47 1.85	88 3.46	52 2.04	3/8*76-2
32×20 1¼×¾	42.4*26.9 1.660*1.050		30 1.18	49 1.93	88 3.46	52 2.04	3/8*76-2
32×25 1¼×1	42.4*33.7 1.660*1.315		30 1.18	51 2.00	88 3.46	52 2.04	3/8*76-2
40×15 1½×½	48.3*21.3 1.900*0.825		30 1.18	50 1.96	88 3.46	52 2.04	3/8*76-2
40×20 1½×¾	48.3*26.9 1.900*1.050		30 1.18	52 2.04	88 3.46	52 2.04	3/8*76-2
40×25 1½×1	48.3*33.7 1.900*1.315		30 1.18	54 2.12	88 3.46	52 2.04	3/8*76-2
50×15 2×½	60.3*21.3 2.375*0.825		30 1.18	56 2.20	102 4.01	52 2.04	3/8*92-2
50×20 2×¾	60.3*26.9 2.375*1.050		30 1.18	58 2.28	102 4.01	52 2.04	3/8*92-2
50×25 2×1	60.3*33.7 2.375*1.315		38 1.50	60 2.36	102 4.01	61 2.40	3/8*92-2
65×15 2½×½	73.0*21.3 2.875*0.825		30 1.18	63 2.48	112 4.40	52 2.04	3/8*108-2
65×20 2½×¾	73.0*26.9 2.875*1.050		30 1.18	65 2.55	112 4.40	52 2.04	3/8*108-2
65×25 2½×1	73.0*33.7 2.875*1.315		38 1.50	67 2.63	112 4.40	61 2.40	3/8*108-2
65×15 2½×½	76.1*21.3 3.000*0.825		30 1.18	64 2.51	112 4.40	52 2.04	3/8*108-2
65×20 2½×¾	76.1*26.9 3.000*1.050		30 1.18	66 2.59	112 4.40	52 2.04	3/8*108-2
65×25 2½×1	76.1*33.7 3.000*1.315		38 1.50	68 2.67	112 4.40	61 2.40	3/8*108-2

Grooved Flange
沟槽法兰
XGQT09



Grooved Flange ANSI Class 150 沟槽法兰

Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions mm/in					Bolt/Size	
			A mm/in	B mm/in	C mm/in	D mm/in	E mm/in	No.-Size mm	
规格	管子基本尺寸	工作压力	尺寸					螺栓	
50 2	60.3 2.375	300 psi 2.07 Mpa	206 8.11	19 0.74	152 5.98	121 4.76	57.5 2.26	M10*50-2	5/8-4
65 2½	73 2.875		230 9.05	19 0.74	178 7.00	140 5.51	69.0 2.71	M10*50-2	5/8-4
80 3	88.9 3.5		244 9.60	19 0.74	191 7.52	152 5.98	85.0 3.34	M10*50-2	5/8-4
100 4	114.3 4.5		280 11.02	19 0.74	229 9.00	191 7.52	110.5 4.35	M12*55-2	5/8-8
125 5	141.3 5.563		322 12.67	22 0.86	250 9.84	216 8.50	137.0 5.39	M12*65-2	3/4-8
150 6	168.3 6.625		346 13.62	22 0.86	285 11.22	241.5 9.50	164.0 6.45	M12*65-2	3/4-8
200 8	219.1 8.625		410 16.14	24 0.94	340.0 13.38	298.5 11.75	214.0 8.42	3/8*70-2	3/4-8
250 10	273 10.75		478.0 18.81	25 0.98	405.6 15.97	362.0 14.25	268.0 10.55	3/8*70-2	7/8-12

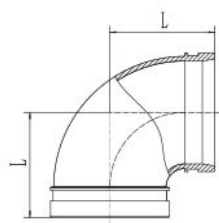
Grooved Flange PN 16 沟槽法兰

Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions mm/in					Bolt/Size	
			A mm/in	B mm/in	C mm/in	D mm/in	E mm/in	No.-Size mm	
规格	管子基本尺寸	工作压力	尺寸					螺栓	
50 2	60.3 2.375	232psi 1.6Mpa	215 8.46	24 0.95	160 6.29	125 4.92	57.5 2.26	M10*50-2	4-M16
65 2½	73 2.875		240 9.44	24 0.95	176 6.92	145 5.71	69.8 2.74	M10*50-2	4-M16
65 2½	76.1 3		240 9.44	24 0.95	176 6.92	145 5.71	72.7 2.86	M10*50-2	4-M16
80 3	88.9 3.5		250 9.84	24 0.95	184 7.24	160 6.30	85.5 3.37	M10*50-2	8-M16
100 4	108 4.25		266 10.47	24 0.95	218 8.58	180 7.09	104.5 4.11	M12*55-2	8-M16
100 4	114.3 4.5		266 10.47	24 0.95	218 8.58	180 7.09	110.5 4.35	M12*55-2	8-M16
125 5	133 5.25		300 11.81	24 0.95	247 9.72	210 8.27	129.2 5.08	M12*65-2	8-M16
125 5	139.7 5.5		300 11.81	24 0.95	247 9.72	210 8.27	135.5 5.33	M12*65-2	8-M16
125 5	141.3 5.563		300 11.81	24 0.95	247 9.72	210 8.27	137.4 5.41	M12*65-2	8-M16
150 6	159 6.25		336 13.22	24 0.95	282 11.10	240 9.45	154.5 6.08	M12*65-2	8-M20
150 6	165.1 6.5		336 13.22	24 0.95	282 11.10	240 9.45	163.5 6.43	M12*65-2	8-M20
150 6	168.3 6.625		336 13.22	24 0.95	282 11.10	240 9.45	163.5 6.43	M12*65-2	8-M20
200 8	219.1 8.625		395 15.55	27 1.06	335 13.18	295 11.61	214.5 8.44	3/8*70-2	12-M20
250 10	273 10.75		470 18.50	27 1.06	404 15.90	355 13.97	267 10.51	3/8*70-2	12-M24

90° Elbow

90° 弯头

XGQT01

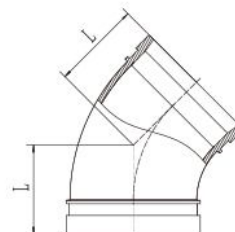


Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L mm/in
规格	管子基本尺寸	工作压力	尺寸
25 1	33.7 1.327	300 psi 2.07 Mpa	57 2.24
32 1¼	42.4 1.669		60 2.36
40 1½	48.3 1.9		60 2.36
50 2	60.3 2.375		70 2.75
65 2½	73 2.875		76 3.00
65 2½	76.1 3		76 3.00
80 3	88.9 3.5		86 3.38
100 4	108 4.25		101 3.98
100 4	114.3 4.5		101 3.98
125 5	133 5.25		121 4.76
125 5	139.7 5.5		121 4.76
125 5	141.3 5.563		121 4.76
150 6	159 6.25		140 5.51
150 6	165.1 6.5		140 5.51
150 6	168.3 6.625		140 5.51
200 8	219.1 8.625		175 6.88
250 10	273 10.75		188.5 7.42
300 12	323.9 12.750		222.5 8.76

45° Elbow

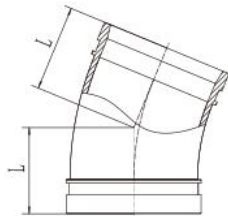
45° 弯头

XGQT02



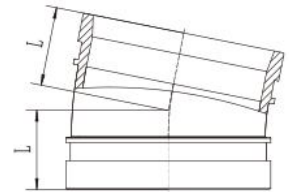
Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L mm/in
规格	管子基本尺寸	工作压力	尺寸
25 1	33.7 1.327	300 psi 2.07 Mpa	45 1.77
32 1¼	42.4 1.669		45 1.77
40 1½	48.3 1.9		45 1.77
50 2	60.3 2.375		51 2.00
65 2½	73 2.875		57 2.24
65 2½	76.1 3		57 2.24
80 3	88.9 3.5		64 2.51
100 4	108 4.25		76 3.00
100 4	114.3 4.5		76 3.00
125 5	133 5.25		82.5 3.24
125 5	139.7 5.5		82.5 3.24
125 5	141.3 5.563		82.5 3.24
150 6	159 6.25		89 3.50
150 6	165.1 6.5		89 3.50
150 6	168.3 6.625		89 3.50
200 8	219.1 8.625		108 4.25
250 10	273 10.75		120.5 4.74
300 12	323.9 12.750		133 5.23

22.5° Elbow
22.5° 弯头 XGQT021



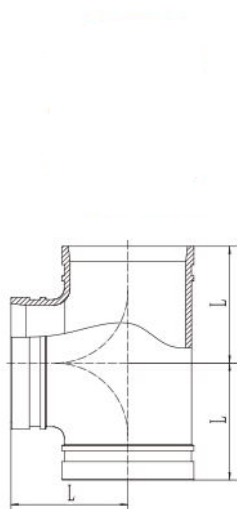
Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L mm/in
规格	管子基本尺寸	工作压力	尺寸
32 1¼	42.4 1.669	300 psi 2.07 Mpa	45 1.77
40 1½	48.3 1.9		45 1.77
50 2	60.3 2.375		48 1.88
65 2½	73 2.875		51 2.00
65 2½	76.1 3		51 2.00
80 3	88.9 3.5		57 2.24
100 4	108 4.25		73 2.87
100 4	114.3 4.5		73 2.87
125 5	133 5.25		73 2.87
125 5	139.7 5.5		73 2.87
150 6	159 6.25		89 3.50
150 6	165.1 6.5		89 3.50
150 6	168.3 6.625		89 3.50
200 8	219.1 8.625		98 3.85

11.25° Elbow
11.25° 弯头 XGQT022



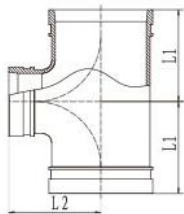
Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L mm/in
规格	管子基本尺寸	工作压力	尺寸
50 2	60.3 2.375	300 psi 2.07 Mpa	35 1.37
65 2½	76.1 3		38 1.49
80 3	88.9 3.5		38 1.49
100 4	108 4.25		44 1.73
100 4	114.3 4.5		44 1.73
125 5	133 5.25		51 2.00
125 5	139.7 5.5		51 2.00
150 6	159 6.25		51 2.00
150 6	165.1 6.5		51 2.00
150 6	168.3 6.625		51 2.00
200 8	219.1 8.625		51 2.00

Tee
正三通
XGQT03



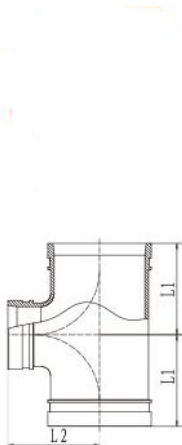
Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L mm/in
规格	管子基本尺寸	工作压力	尺寸
25 1	33.7 1.327	300 psi 2.07 Mpa	57 2.24
32 1¼	42.4 1.669		60 2.36
40 1½	48.3 1.9		60 2.36
50 2	60.3 2.375		70 2.75
65 2½	73 2.875		76 3.00
65 2½	76.1 3		76 3.00
80 3	88.9 3.5		86 3.38
100 4	108 4.25		101 3.98
100 4	114.3 4.5		101 3.98
125 5	133 5.25		121 4.76
125 5	139.7 5.5		121 4.76
125 5	141.3 5.563		121 4.76
150 6	159 6.25		140 5.51
150 6	165.1 6.5		140 5.51
150 6	168.3 6.625		140 5.51
200 8	219.1 8.625		175 6.88
250 10	273 10.75		215 8.46
300 12	323.9 12.750		245 9.64

Grooved Reducing Tee
沟槽式异径三通
XGQT04



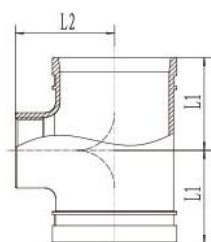
Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L1 mm/in	Dimensions L2 mm/in
规格	管子基本尺寸	工作压力	尺寸	尺寸
50×25 2×1	60.3×33.7 2.375×1.315	300 psi 2.07 Mpa	70 2.75	70 2.75
50×32 2×1¼	60.3×42.4 2.375×1.660		70 2.75	70 2.75
50×40 2×1½	60.3×48.3 2.375×1.900		70 2.75	70 2.75
65×32 2½×1¼	73.0×42.4 2.875×1.660		76 3.00	76 3.00
65×40 2½×1½	73.0×48.3 2.875×1.900		76 3.00	76 3.00
65×50 2½×2	73.0×60.3 2.875×2.375		76 3.00	76 3.00
65×32 2½×1¼	76.1×42.4 3.000×1.660		76 3.00	76 3.00
65×40 2½×1½	76.1×48.3 3.000×1.900		76 3.00	76 3.00
65×50 2½×2	76.1×60.3 3.000×2.375		76 3.00	76 3.00
80×40 3×1½	88.9×48.3 3.500×1.900		86 3.38	86 3.38
80×50 3×2	88.9×60.3 3.500×2.375		86 3.38	86 3.38
80×65 3×2½	88.9×76.1 3.500×3.000		86 3.38	86 3.38
100×65 4×2½	108.0×76.1 4.250×3.000		101 3.98	101 3.98
100×80 4×3	108.0×88.9 4.250×3.500		101 3.98	101 3.98
100×50 4×2	114.3×60.3 4.500×2.375		101 3.98	101 3.98
100×65 4×2½	114.3×76.1 4.500×3.000		101 3.98	101 3.98
100×80 4×3	114.3×88.9 4.500×3.500		101 3.98	101 3.98
125×50 5×2	133.0×60.3 5.250×2.375		121 4.76	121 4.76
125×65 5×2½	133.0×76.1 5.250×3.000		121 4.76	121 4.76
125×100 5×4	133.0×108.0 5.250×4.250		121 4.76	121 4.76
125×100 5×4	133.0×114.3 5.250×4.500		121 4.76	121 4.76
125×50 5×2	139.7×60.3 5.500×2.375		121 4.76	121 4.76
125×65 5×2½	139.7×76.1 5.500×3.000		121 4.76	121 4.76
125×80 5×3	139.7×88.9 5.500×3.500		121 4.76	121 4.76
125×100 5×4	139.7×114.3 5.500×4.500		121 4.76	121 4.76
125×50 5×2	141.3×60.3 5.563×2.375		121 4.76	121 4.76
125×65 5×2½	141.3×73.0 5.563×2.875		121 4.76	121 4.76

Grooved Reducing Tee
沟槽式异径三通
XGQT04



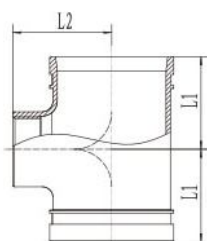
Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L1 mm/in	Dimensions L2 mm/in
规格	管子基本尺寸	工作压力	尺寸	尺寸
125×65 5×2½	141.3×76.1 5.563×3.000	300 psi 2.07 Mpa	121 4.76	121 4.76
125×80 5×3	141.3×88.9 5.563×3.500		121 4.76	121 4.76
125×100 5×4	141.3×114.3 5.563×4.500		121 4.76	121 4.76
150×65 6×2½	159.0×76.1 6.250×3.000		140 5.50	140 5.50
150×80 6×3	159.0×88.9 6.250×3.500		140 5.50	140 5.50
150×100 6×4	159.0×108.0 6.250×4.250		140 5.50	140 5.50
150×100 6×4	159.0×114.3 6.250×4.500		140 5.50	140 5.50
150×50 6×2	165.1×60.3 6.500×2.375		140 5.50	140 5.50
150×65 6×2½	165.1×76.1 6.500×3.000		140 5.50	140 5.50
150×80 6×3	165.1×88.9 6.500×3.500		140 5.50	140 5.50
150×100 6×4	165.1×114.3 6.500×4.500		140 5.50	140 5.50
150×125 6×5	165.1×139.7 6.500×5.500		140 5.50	140 5.50
150×50 6×2	168.3×60.3 6.625×2.375		140 5.50	140 5.50
150×65 6×2½	168.3×76.1 6.625×3.000		140 5.50	140 5.50
150×80 6×3	168.3×88.9 6.625×3.500		140 5.50	140 5.50
200×65 8×2½	219.1×76.1 8.625×3.000		175 6.88	175 6.88
200×80 8×3	219.1×88.9 8.625×3.500		175 6.88	175 6.88
200×100 8×4	219.1×108.0 8.625×4.250		175 6.88	175 6.88
200×100 8×4	219.1×114.3 8.625×4.500		175 6.88	175 6.88
200×125 8×5	219.1×139.7 8.625×5.500		175 6.88	175 6.88
200×150 8×6	219.1×159.0 8.625×6.250		175 6.88	175 6.88
200×150 8×6	219.1×165.1 8.625×6.500		175 6.88	175 6.88
200×150 8×6	219.1×168.3 8.625×6.625		175 6.88	175 6.88
250×100 10×4	273.0×114.3 10.750×4.500		215 8.46	215 8.46
250×125 10×5	273.0×139.7 10.750×5.500		215 8.46	215 8.46
250×150 10×6	273.0×165.1 10.750×6.500		215 8.46	215 8.46

Threaded Reducing Tee
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 XGQT04S



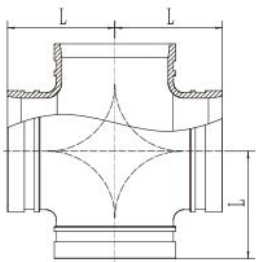
Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L1 mm/in	Dimensions L2 mm/in
规格	管子基本尺寸	工作压力	尺寸	尺寸
40×25 1½×1	48.3×33.7 1.900×1.315	300 psi 2.07 Mpa	60 2.36	60 2.36
40×32 1½×1¼	48.3×42.4 1.900×1.660		60 2.36	60 2.36
50×25 2×1	60.3×33.7 2.375×1.315		70 2.75	70 2.75
50×32 2×1¼	60.3×42.4 2.375×1.660		70 2.75	70 2.75
50×40 2×1½	60.3×48.3 2.375×1.900		70 2.75	70 2.75
65×25 2½×1	73.0×33.7 2.875×1.315		76 3.00	76 3.00
65×32 2½×1¼	73.0×42.4 2.875×1.660		76 3.00	76 3.00
65×40 2½×1½	73.0×48.3 2.875×1.900		76 3.00	76 3.00
65×50 2½×2	73.0×60.3 2.875×2.375		76 3.00	76 3.00
65×25 2½×1	76.1×33.7 3.000×1.315		76 3.00	76 3.00
65×32 2½×1¼	76.1×42.4 3.000×1.660		76 3.00	76 3.00
65×40 2½×1½	76.1×48.3 3.000×1.900		76 3.00	76 3.00
65×50 2½×2	76.1×60.3 3.000×2.375		76 3.00	76 3.00
80×25 3×1	88.9×33.7 3.500×1.315		86 3.38	86 3.38
80×32 3×1¼	88.9×42.4 3.500×1.660		86 3.38	86 3.38
80×40 3×1½	88.9×48.3 3.500×1.900		86 3.38	86 3.38
80×50 3×2	88.9×60.3 3.500×2.375		86 3.38	86 3.38
80×65 3×2½	88.9×76.1 3.500×3.000		86 3.38	86 3.38
100×65 4×2½	108.0×76.1 4.250×3.000		101 3.98	101 3.98
100×80 4×3	108.0×88.9 4.250×3.500		101 3.98	101 3.98
100×25 4×1	114.3×33.7 4.500×1.315		101 3.98	101 3.98
100×32 4×1¼	114.3×42.4 4.500×1.660		101 3.98	101 3.98
100×40 4×1½	114.3×48.3 4.500×1.900		101 3.98	101 3.98
100×50 4×2	114.3×60.3 4.500×2.375		101 3.98	101 3.98
100×65 4×2½	114.3×76.1 4.500×3.000		101 3.98	101 3.98
100×80 4×3	114.3×88.9 4.500×3.500		101 3.98	101 3.98
125×25 5×1	139.7×33.7 5.500×1.315		121 4.76	121 4.76

Threaded Reducing Tee
 螺纹式异径三通
 XGQT04S



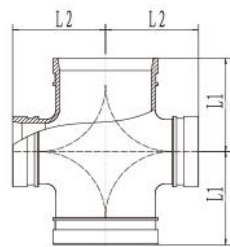
Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L1 mm/in	Dimensions L2 mm/in
规格	管子基本尺寸	工作压力	尺寸	尺寸
125×32 5×1¼	139.7×42.4 5.500×1.660	300 psi 2.07 Mpa	121 4.76	121 4.76
125×40 5×1½	139.7×48.3 5.500×1.900		121 4.76	121 4.76
125×50 5×2	139.7×60.3 5.500×2.375		121 4.76	121 4.76
125×65 5×2½	139.7×76.1 5.500×3.000		121 4.76	121 4.76
125×80 5×3	139.7×88.9 5.500×3.500		121 4.76	121 4.76
125×25 5×1	141.3×33.7 5.563×1.315		121 4.76	121 4.76
125×32 5×1¼	141.3×42.4 5.563×1.660		121 4.76	121 4.76
125×40 5×1½	141.3×48.3 5.563×1.900		121 4.76	121 4.76
125×50 5×2	141.3×60.3 5.563×2.375		121 4.76	121 4.76
125×65 5×2½	141.3×73.0 5.563×2.875		121 4.76	121 4.76
125×65 5×2½	141.3×76.1 5.563×3.000		121 4.76	121 4.76
150×65 6×2½	159.0×76.1 6.250×3.000		140 5.50	140 5.50
150×80 6×3	159.0×88.9 6.250×3.500		140 5.50	140 5.50
150×25 6×1	165.1×33.7 6.500×1.315		140 5.50	140 5.50
150×32 6×1¼	165.1×42.4 6.500×1.660		140 5.50	140 5.50
150×40 6×1½	165.1×48.3 6.500×1.900		140 5.50	140 5.50
150×50 6×2	165.1×60.3 6.500×2.375		140 5.50	140 5.50
150×65 6×2½	165.1×76.1 6.500×3.000		140 5.50	140 5.50
150×80 6×3	165.1×88.9 6.500×3.500		140 5.50	140 5.50
150×100 6×4	165.1×114.3 6.500×4.500		140 5.50	140 5.50
150×25 6×1	168.3×33.7 6.625×1.315		140 5.50	140 5.50
150×32 6×1¼	168.3×42.4 6.625×1.660		140 5.50	140 5.50
150×40 6×1½	168.3×48.3 6.625×1.900		140 5.50	140 5.50
150×50 6×2	168.3×60.3 6.625×2.375		140 5.50	140 5.50
200×50 8×2	219.1×60.3 8.625×2.375		175 6.88	175 6.88
200×65 8×2½	219.1×76.1 8.625×3.000		175 6.88	175 6.88
200×80 8×3	219.1×88.9 8.625×3.500		175 6.88	175 6.88

Cross
正四通
XGQT05



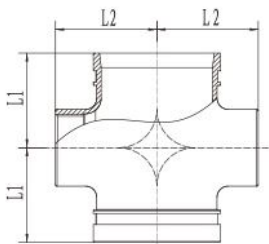
Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L mm/in
规格	管子基本尺寸	工作压力	尺寸
32 1¼	42.4 1.669	300 psi 2.07 Mpa	60 2.36
40 1½	48.3 1.9		60 2.36
50 2	60.3 2.375		70 2.75
65 2½	73.0 2.875		76 3.00
65 2½	76.1 3		76 3.00
80 3	88.9 3.5		86 3.38
100 4	108 4.25		101 3.98
100 4	114.3 4.5		101 3.98
125 5	133.0 5.25		121 4.76
125 5	139.7 5.5		121 4.76
125 5	141.3 5.563		121 4.76
150 6	159.0 6.25		140 5.51
150 6	165.1 6.5		140 5.51
150 6	168.3 6.625		140 5.51
200 8	219.1 8.625		175 6.88
250 10	273.0 10.75		215 8.46
300 12	323.9 12.750		245 9.64

Grooved Reducing Cross
沟槽式异径四通
XGQT051



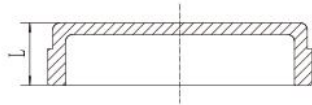
Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L1 mm/in	Dimensions L2 mm/in
规格	管子基本尺寸	工作压力	尺寸	尺寸
100×50 4×2	114.3×60.3 4.500×2.375	300 psi 2.07 Mpa	101 3.98	101 3.98
100×65 4×2½	114.3×76.1 4.500×3.000		101 3.98	101 3.98
100×80 4×3	114.3×88.9 5.563×3.500		101 3.98	101 3.98
125×100 5×4	139.7×114.3 5.500×4.500		121 4.76	121 4.76
150×100 6×4	165.1×114.3 6.500×4.500		140 5.50	140 5.50
150×50 6×2	168.3×60.3 6.625×2.375		140 5.50	140 5.50
150×65 6×2½	168.3×76.1 6.625×3.000		140 5.50	140 5.50
150×80 6×3	168.3×88.9 6.625×3.500		140 5.50	140 5.50
150×100 6×4	168.3×114.3 6.625×4.500		140 5.50	140 5.50

Threaded Reducing Cross
 螺纹式异径四通
 XGQT051S



Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L1 mm/in	Dimensions L2 mm/in
规格	管子基本尺寸	工作压力	尺寸	尺寸
100×25 4×1	114.3×33.7 4.500×1.315	300 psi 2.07 Mpa	101 3.98	101 3.98
100×32 4×1¼	114.3×42.4 4.500×1.660		101 3.98	101 3.98
100×40 4×1½	114.3×48.3 4.500×1.900		101 3.98	101 3.98
100×50 4×2	114.3×60.3 4.500×2.375		101 3.98	101 3.98
100×65 4×2½	114.3×76.1 4.500×3.000		101 3.98	101 3.98
100×80 4×3	114.3×88.9 4.500×3.500		101 3.98	101 3.98
125×32 5×1¼	139.7×42.4 5.500×1.660		121 4.76	121 4.76
125×40 5×1½	139.7×48.3 5.500×1.900		121 4.76	121 4.76
125×50 5×2	139.7×60.3 5.500×2.375		121 4.76	121 4.76
125×65 5×2½	139.7×76.1 5.500×3.000		121 4.76	121 4.76
125×80 5×3	139.7×88.9 5.500×3.500		121 4.76	121 4.76
150×25 6×1	165.1×33.7 6.500×1.315		140 5.50	140 5.50
150×32 6×1¼	165.1×42.4 6.500×1.660		140 5.50	140 5.50
150×40 6×1½	165.1×48.3 6.500×1.900		140 5.50	140 5.50
150×50 6×2	165.1×60.3 6.500×2.375		140 5.50	140 5.50
150×65 6×2½	165.1×76.1 6.500×3.000		140 5.50	140 5.50
150×80 6×3	165.1×88.9 6.500×3.500		140 5.50	140 5.50

Cap
盲片
XGQT06

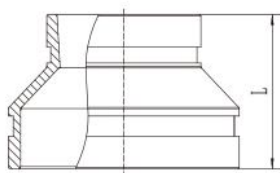


Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L mm/in
规格	管子基本尺寸	工作压力	尺寸
25 1	33.7 1.327	300 psi 2.07 Mpa	25 0.98
32 1¼	42.4 1.669		25 0.98
40 1½	48.3 1.9		25 0.98
50 2	60.3 2.375		25 0.98
65 2½	73 2.875		25 0.98
65 2½	76.1 3		25 0.98
80 3	88.9 3.5		26 10.2
100 4	108 4.25		26 10.2
100 4	114.3 4.5		26 10.2
125 5	133 5.25		26 10.2
125 5	139.7 5.5		26 10.2
125 5	141.3 5.563		26 10.2
150 6	159 6.25		26 10.2
150 6	165.1 6.5		26 10.2
150 6	168.3 6.625		26 10.2
200 8	219.1 8.625		30 1.18
250 10	273 10.75		32 1.25
300 12	323.9 12.750		32 1.25

Grooved Concentric Reducer

沟槽式大小头

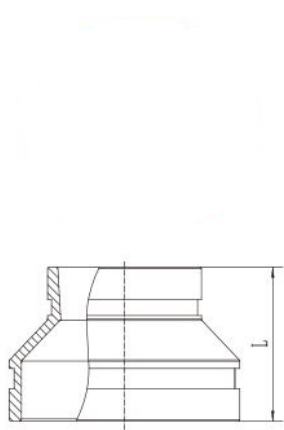
XGQT07



Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L mm/in
规格	管子基本尺寸	工作压力	尺寸
32×25 1¼×1	42.4×33.7 1.660×1.315	300 psi 2.07 Mpa	64 2.51
40×25 1½×1	48.3×33.7 1.900×1.315		64 2.51
40×32 1½×1¼	48.3×42.4 1.900×1.660		64 2.51
50×25 2×1	60.3×33.7 2.375×1.315		64 2.51
50×32 2×1¼	60.3×42.4 2.375×1.660		64 2.51
50×40 2×1½	60.3×48.3 2.375×1.900		64 2.51
65×25 2½×1	73.0×33.7 2.875×1.315		64 2.51
65×32 2½×1¼	73.0×42.4 2.875×1.660		64 2.51
65×40 2½×1½	73.0×48.3 2.875×1.900		64 2.51
65×50 2½×2	73.0×60.3 2.875×2.375		64 2.51
65×32 2½×1¼	76.1×42.4 3.000×1.660		64 2.51
65×40 2½×1½	76.1×48.3 3.000×1.900		64 2.51
65×50 2½×2	76.1×60.3 3.000×2.375		64 2.51
80×32 3×1¼	88.9×42.4 3.500×1.660		64 2.51
80×40 3×1½	88.9×48.3 3.500×1.900		64 2.51
80×50 3×2	88.9×60.3 3.500×2.375		64 2.51
80×65 3×2½	88.9×76.1 3.500×3.000		64 2.51
100×65 4×2½	108.0×76.1 4.250×3.000		76 2.99
100×80 4×3	108.0×88.9 4.250×3.500		76 2.99
100×32 4×1¼	114.3×42.4 4.500×1.660		76 2.99

Grooved Concentric Reducer

沟槽式大小头
XGQT07

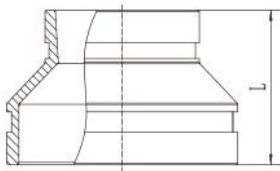


Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L mm/in
规格	管子基本尺寸	工作压力	尺寸
100×40 4×1½	114.3×48.3 4.500×1.900	300 psi 2.07 Mpa	76 2.99
100×50 4×2	114.3×60.3 4.500×2.375		76 2.99
100×65 4×2½	114.3×76.1 4.500×3.000		76 2.99
100×80 4×3	114.3×88.9 4.500×3.500		76 2.99
125×50 5×2	139.7×60.3 5.500×2.375		89 3.50
125×65 5×2½	139.7×76.1 5.500×3.000		89 3.50
125×80 5×3	139.7×88.9 5.500×3.500		89 3.50
125×100 5×4	139.7×114.3 5.500×4.500		89 3.50
125×50 5×2	141.3×60.3 5.563×2.375		89 3.50
125×65 5×2½	141.3×76.1 5.563×3.000		89 3.50
125×80 5×3	141.3×88.9 5.563×3.500		89 3.50
125×100 5×4	141.3×114.3 5.563×4.500		89 3.50
150×50 6×2	159.0×60.3 6.250×2.375		102 4.01
150×65 6×2½	159.0×76.1 6.250×3.000		102 4.01
150×80 6×3	159.0×88.9 6.250×3.500		102 4.01
150×100 6×4	159.0×108.0 6.250×4.250		102 4.01
150×100 6×4	159.0×114.3 6.250×4.500		102 4.01
150×125 6×5	159.0×133.0 6.250×5.250		102 4.01
150×125 6×5	159.0×139.7 6.250×5.500		102 4.01
150×50 6×2	165.1×60.3 6.500×2.375		102 4.01

Grooved Concentric Reducer

沟槽式大小头

XGQT07

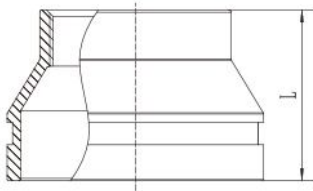


Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L mm/in
规格	管子基本尺寸	工作压力	尺寸
150×65 6×2½	165.1×76.1 6.500×3.000	300 psi 2.07 Mpa	102 4.01
150×80 6×3	165.1×88.9 6.500×3.500		102 4.01
150×100 6×4	165.1×114.3 6.500×4.500		102 4.01
150×125 6×5	165.1×139.7 6.500×5.500		102 4.01
150×50 6×2	168.3×60.3 6.625×2.375		102 4.01
150×65 6×2½	168.3×76.1 6.625×3.000		102 4.01
150×80 6×3	168.3×88.9 6.625×3.500		102 4.01
150×100 6×4	168.3×114.3 6.625×4.500		102 4.01
150×80 6×5	168.3×139.7 6.625×5.500		102 4.01
200×50 8×2	219.1×60.3 8.625×2.375		127 5
200×65 8×2½	219.1×76.1 8.625×3.000		127 5
200×80 8×3	219.1×88.9 8.625×3.500		127 5
200×100 8×4	219.1×108.0 8.625×4.250		127 5
200×100 8×4	219.1×114.3 8.625×4.500		127 5
200×125 8×5	219.1×139.7 8.625×5.500		127 5
200×150 8×6	219.1×159.0 8.625×6.250		127 5
200×150 8×6	219.1×165.1 8.625×6.500		127 5
200×150 8×6	219.1×168.3 8.625×6.625		127 5

Threaded Concentric Reducer

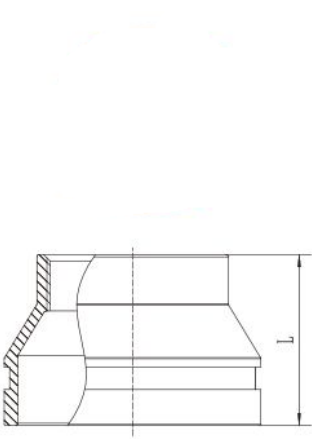
螺纹式大小头

XGQT07S



Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L mm/in
规格	管子基本尺寸	工作压力	尺寸
32×25 1¼×1	42.4×33.7 1.660×1.315	300 psi 2.07 Mpa	64 2.51
40×32 1½×1¼	48.3×42.4 1.900×1.660		64 2.51
50×25 2×1	60.3×33.7 2.375×1.315		64 2.51
50×32 2×1¼	60.3×42.4 2.375×1.660		64 2.51
50×40 2×1½	60.3×48.3 2.375×1.900		64 2.51
65×25 2½×1	73.0×33.7 2.875×1.315		64 2.51
65×32 2½×1¼	73.0×42.4 2.875×1.660		64 2.51
65×40 2½×1½	73.0×48.3 2.875×1.900		64 2.51
65×50 2½×2	73.0×60.3 2.875×2.375		64 2.51
65×25 2½×1	76.1×33.7 3.000×1.315		64 2.51
65×32 2½×1¼	76.1×42.4 3.000×1.660		64 2.51
65×40 2½×1½	76.1×48.3 3.000×1.900		64 2.51
65×50 2½×2	76.1×60.3 3.000×2.375		64 2.51
80×25 3×1	88.9×33.7 3.500×1.315		64 2.51
80×32 3×1¼	88.9×42.4 3.500×1.660		64 2.51
80×40 3×1½	88.9×48.3 3.500×1.900		64 2.51
80×50 3×2	88.9×60.3 3.500×2.375		64 2.51
80×65 3×2½	88.9×76.1 3.500×3.000		64 2.51
100×25 4×1	108.0×33.7 4.250×1.315		76 2.99
100×32 4×1¼	108.0×42.4 4.250×1.660		76 2.99
100×40 4×1½	108.0×48.3 4.250×1.900		76 2.99
100×50 4×2	108.0×60.3 4.250×2.375		76 2.99
100×65 4×2½	108.0×76.1 4.250×3.000		76 2.99
100×80 4×3	108.0×88.9 4.250×3.500		76 2.99

Threaded Concentric Reducer
螺纹式大小头
XGQT07S

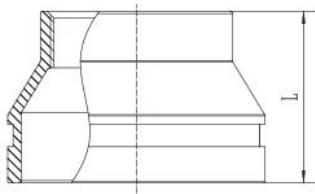


Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L mm/in
规格	管子基本尺寸	工作压力	尺寸
100×25 4×1	114.3×33.7 4.500×1.315	300 psi 2.07 Mpa	76 2.99
100×32 4×1¼	114.3×42.4 4.500×1.660		76 2.99
100×40 4×1½	114.3×48.3 4.500×1.900		76 2.99
100×50 4×2	114.3×60.3 4.500×2.375		76 2.99
100×65 4×2½	114.3×76.1 4.500×3.000		76 2.99
100×80 4×3	114.3×88.9 4.500×3.500		76 2.99
125×25 5×1	133.0×33.7 5.250×1.315		89 3.50
125×32 5×1¼	133.0×42.4 5.250×1.660		89 3.50
125×40 5×1½	133.0×48.3 5.250×1.900		89 3.50
125×50 5×2	133.0×60.3 5.250×2.375		89 3.50
125×25 5×1	139.7×33.7 5.500×1.315		89 3.50
125×32 5×1¼	139.7×42.4 5.500×1.660		89 3.50
125×40 5×1½	139.7×48.3 5.500×1.900		89 3.50
125×50 5×2	139.7×60.3 5.500×2.375		89 3.50
125×65 5×2½	139.7×76.1 5.500×3.000		89 3.50
125×80 5×3	139.7×88.9 5.500×3.500		89 3.50
125×100 5×4	139.7×114.3 5.500×4.500		89 3.50
125×25 5×1	141.3×33.7 5.563×1.315		89 3.50
125×32 5×1¼	141.3×42.4 5.563×1.660		89 3.50
125×40 5×1½	141.3×48.3 5.563×1.900		89 3.50
125×50 5×2	141.3×60.3 5.563×2.375		89 3.50
125×65 5×2½	141.3×76.1 5.563×3.000		89 3.50
125×80 5×3	141.3×88.9 5.563×3.500		89 3.50
150×25 6×1	159.0×33.7 6.250×1.315		102 4.01

Threaded Concentric Reducer

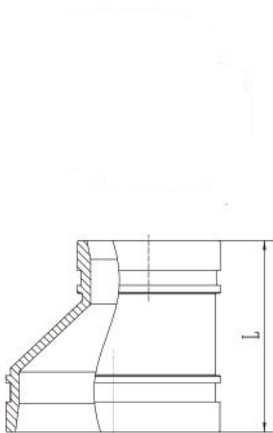
螺纹式大小头

XGQT07S



Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L mm/in
规格	管子基本尺寸	工作压力	尺寸
150×32 6×1¼	159.0×42.4 6.250×1.660	300 psi 2.07 Mpa	102 4.01
150×40 6×1½	159.0×48.3 6.250×1.900		102 4.01
150×50 6×2	159.0×60.3 6.250×2.375		102 4.01
150×65 6×2½	159.0×76.1 6.250×3.000		102 4.01
150×80 6×3	159.0×88.9 6.250×3.500		102 4.01
150×25 6×1	165.1×33.7 6.500×1.315		102 4.01
150×32 6×1¼	165.1×42 6.500×1.660		102 4.01
150×40 6×1½	165.1×48.3 6.500×1.900		102 4.01
150×50 6×2	165.1×60.3 6.500×2.375		102 4.01
150×65 6×2½	165.1×76.1 6.500×3.000		102 4.01
150×80 6×3	165.1×88.9 6.500×3.500		102 4.01
150×100 6×4	165.1×114.3 6.500×4.500		102 4.01
150×25 6×1	168.3×33.7 6.625×1.315		102 4.01
150×32 6×1¼	168.3×42.4 6.625×1.660		102 4.01
150×40 6×1½	168.3×48.3 6.625×1.900		102 4.01
150×50 6×2	168.3×60.3 6.625×2.375		102 4.01
200×25 8×1	219.1×33.7 8.625×1.315		127 5
200×32 8×1¼	219.1×42.4 8.625×1.660		127 5
200×40 8×1½	219.1×48.3 8.625×1.900		127 5
200×50 8×2	219.1×60.3 8.625×2.375		127 5
200×65 8×2½	219.1×76.1 8.625×3.000		127 5
200×80 8×3	219.1×88.9 8.625×3.500		127 5
200×100 8×4	219.1×114.3 8.625×4.500		127 5

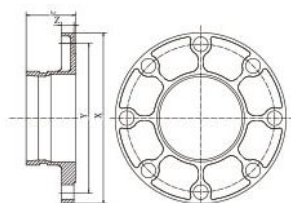
Grooved Eccentric Reducer
沟槽式偏心大小头
XGQT07P



Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions L mm/in
规格	管子基本尺寸	工作压力	尺寸
80×50 3×2	88.9×60.3 3.500×2.375	300 psi 2.07 Mpa	89 3.50
100×65 4×2½	108.0×76.1 4.250×3.000		102 4.01
100×80 4×3	108.0×88.9 4.250×3.500		102 4.01
100×50 4×2	114.3×60.3 4.500×2.375		102 4.01
100×65 4×2½	114.3×76.1 4.500×3.000		102 4.01
100×80 4×3	114.3×88.9 4.500×3.500		102 4.01
125×80 5×3	139.7×88.9 5.500×3.500		102 4.01
125×100 5×4	139.7×114.3 5.500×4.500		102 4.01
150×80 6×3	159.0×88.9 6.250×3.500		102 4.01
150×100 6×4	159.0×108.0 6.250×4.250		102 4.01
150×100 6×4	159.0×114.3 6.250×4.500		102 4.01
150×65 6×2½	165.1×76.1 6.500×3.000		102 4.01
150×80 6×3	165.1×88.9 6.500×3.500		102 4.01
150×100 6×4	165.1×114.3 6.500×4.500		102 4.01
150×125 6×5	165.1×139.7 6.500×5.500		102 4.01
150×80 6×3	168.3×88.9 6.625×3.500		102 4.01
150×100 6×4	168.3×114.3 6.625×4.500		102 4.01
150×80 6×3	168.3×139.7 6.625×5.500		102 4.01
200×80 8×3	219.1×88.9 8.625×3.500		127 5
200×100 8×4	219.1×114.3 8.625×4.500		127 5
200×125 8×5	219.1×139.7 8.625×5.500		127 5
200×150 8×6	219.1×165.1 8.625×6.500		127 5
200×150 8×6	219.1×168.3 8.625×6.625		127 5

Adaptor Flange ANSI Class 150

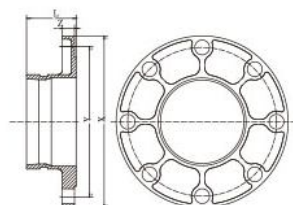
转换法兰 XGQT08



Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions mm/in				Bolt/Size
			L mm/in	X mm/in	Y mm/in	Z mm/in	No.-Size mm
规格	管子基本尺寸	工作压力	尺寸				螺栓
50 2	60.3 2.375	300 psi 2.07 Mpa	60 2.362	160 6.30	120.7 4.75	15 0.59	4-5/8
65 2½	73 2.875		60 2.362	180 7.08	139.7 5.50	15 0.59	4-5/8
80 3	88.9 3.5		65 2.559	200 7.87	152.5 6.00	15 0.59	8-5/8
100 4	114.3 4.5		70 2.756	228 8.97	190.5 7.50	16 0.63	8-5/8
100 4	141 4.5		70 2.756	250 9.84	216 8.50	17 0.67	8-5/8
150 6	168.3 6.625		70 2.756	282 11.10	241.5 9.50	17 0.67	8-3/4
200 8	219.1 8.625		75 2.952	340 13.39	298.5 11.75	19 0.74	8-3/4
250 10	273 10.75		85 3.346	405 15.94	362 14.25	21 0.82	12-7/8
300 12	323.9 12.750		85 3.346	482 18.97	432 17.00	22 0.86	12-7/8

Adaptor Flange PN 16

转换法兰 XGQT08



Nominal Size mm/in	Pipe OD. mm/in	Working Pressure psi/Mpa	Dimensions mm/in				Bolt Size No.-Size mm
			L mm/in	X mm/in	Y mm/in	Z mm/in	
规 格	管子基本尺寸	工作压力	尺 寸				螺 栓
50 2	60.3 2.375	232psi 1.6Mpa	65 2.559	165 6.50	125 4.92	16 0.63	4-M 16
65 2½	76.1 3		65 2.559	185 7.28	145 5.70	16 0.63	4-M 16
80 3	88.9 3.5		65 2.559	200 7.87	160 6.29	16 0.63	8-M 16
100 4	108 4.25		70 2.756	220 8.66	180 7.08	16 0.63	8-M 16
100 4	114.3 4.5		70 2.756	220 8.66	180 7.08	16 0.63	8-M 16
125 5	133 5.25		70 2.756	250 9.84	210 8.26	18 0.71	8-M 16
125 5	139.7 5.5		70 2.756	250 9.84	210 8.26	18 0.71	8-M 16
150 6	159 6.25		70 2.756	282 11.10	240 9.44	18 0.71	8-M 20
150 6	165.1 6.5		70 2.756	282 11.10	240 9.44	18 0.71	8-M 20
150 6	168.3 6.625		70 2.756	282 11.10	240 9.44	18 0.71	8-M 20
200 8	219.1 8.625		80 3.150	340 13.39	295 11.61	19 0.74	12-M 20
250 10	273 10.75		85 3.346	405 15.94	355 13.97	21 0.82	12-M 24
300 12	323.9 12.750		90 3.543	460 18.11	410 16.14	24 0.94	12-M 24

橡胶密封圈 (GASKET DATA)



牌号名称 Gasket	名 称 Name	适 用 温 度 Temperature Range	使用介质 General Service Recommendations	颜色标记 Color Mark
E	三元 乙丙 橡胶 EPDM	-34~+110°C (-30~+230°F)	水、气体、稀释的酸（碱）、以及其他化学 品（不包括碳氢化合物。） 注：严禁与油、碳氢化合物同用。 Recommended for hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. UL classified in accordance with ANSI/NSF 61or cold+86° F (+30°) and hot +180° F (+82° C) potable water service. Not recommended for petroleum service	黑色加绿色标记 Green Strip
S	硅橡胶 SILICON	-40~+177°C (-40~+350°F)	高温干燥的空气和一些高温的化学物，饮用 水等。（ Recommended for high temperature dry air and some high temperature chemical products,drinking water,etc.）	白色 White
D	丁腈 橡胶 NITRILE	-29~+82°C (-20~+180°F)	石油产品、植物油、矿物油 注：严禁与高温物质同用。 Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. Not recommended for hot water services.	黑色加橙色标记 Orange Strip

刚性&挠性卡箍安装指南

Installation Instruction For Rigid & Flexible Coupling

1. 刚性管接头连接:

刚性管接头连接方式使系统不具柔性，管接头卡紧后可与钢管形成刚性一体，在吊具跨度较大时，使管道依靠自身刚性支撑连接。

Rigid Couplings can not enable the connection system to be flexible, and the couplings are integrated with steel pipes after they are fastened. If the sling has a bigger span, the pipes will support the connection depending on their own rigidity.

2. 柔性管接头连接: 柔性管接头连接方式使系统具有柔性，允许钢管有一定量的角度偏差，相对错位。钢管连接后，两钢管管端之间留有间隙可适应管道的膨胀、收缩。管接头末端载荷的能力。末端负荷是指管接头槽口可承受沿钢管轴向负荷的能力。

Flexible Couplings can enable the connection system to be flexible ,it allows the steel pipe has a certain angle deviation and relative deviation .There are some clearance between the ends of two steel pipes in order to suit the expansion and shrinkage of the pipelines. The pipe couplings should maintain the normal working condition under the maximum allowable deflexion and dislocation .Flexible Couplings can endure a certain terminal load, which refers to the load along the pipe axis to be borne by coupling grooves.



1. 安装前必须检查沟槽是否符合标准，去掉管子和密封圈上的毛刺、铁锈，油污等杂质。

1. Before installation, whether the groove meet the standard should be checked and then wipe away the pickles, iron rust, greasy dirt on gasket ring and pipe.



2.在管子端部和橡胶圈上涂上润滑剂
2. Spread lubricant on the pipe end and gasket ring.



3.将密封橡胶圈套入一根钢管的密封部位
3. Cover the compacting gasket ring at the sealing of a steel pipe.



4.将另一根加工好沟槽的钢管靠拢，将橡胶圈套入管端，使橡胶圈刚好位于两根管子的密封部位。

4. Secure another grooved steel pipe to this one and cover the gasket ring on pipe end, making sure the gasket ring at the sealing position of both pipes.



5.确认管卡已经卡住管子。
5. Make sure coupling has fixed the pipes.



6.均匀的拧紧全部标准螺栓，直到达到要求的扭矩值
6. Gradually tighten nuts to torque.