



**LONGER
LASTING**

**PIN HOLE
FREE**



**TAPERED
THREADS**

MINGGALV.COM



MING® The **HEAVYWEIGHT** of galvanised fittings continues to forge a solid name for its uncompromising quality.

MING® hot dipped malleable iron fittings are each individually pressure tested to ensure pin hole free quality.

Each fitting is coated with a light oil to prevent corrosion on threads which conform to ISO 7-1 (BSP Standard) and ensure a perfect seal for the fittings lifetime.

Here are some interesting facts about our **MING®** Products:

Max Pressure : 16 Bar (230Psi) (1.6Mpa)

Max Temperature : 200°C (392°F)

Tensile Strength : $\geq$ 330Mpa

Hardness : $\geq$ HB150 (Brinell)

Elongation Rate : $\geq$ 8%



ELBOW 90°

ITEM CODE	BSP	METRIC mm
900/0008	¼"	8
900/0010	⅜"	10
900/0015	½"	15
900/0020	¾"	20
900/0025	1"	25
900/0032	1¼"	32
900/0040	1½"	40
900/0050	2"	50
900/0065	2½"	65
900/0080	3"	80
900/0100	4"	100
900/0150	6"	150

ELBOW 45°

ITEM CODE	BSP	METRIC mm
903/0015	½"	15
903/0020	¾"	20
903/0025	1"	25
903/0032	1¼"	32
903/0040	1½"	40
903/0050	2"	50
903/0065	2½"	65
903/0080	3"	80
903/0100	4"	100
903/0150	6"	150

ELBOW 90° MxF

ITEM CODE	BSP	METRIC mm
901/0008	¼"	8
901/0010	⅜"	10
901/0015	½"	15
901/0020	¾"	20
901/0025	1"	25
901/0032	1¼"	32
901/0040	1½"	40
901/0050	2"	50
901/0065	2½"	65
901/0080	3"	80
901/0100	4"	100

REDUCING ELBOW 90°

ITEM CODE	BSP	METRIC mm	ITEM CODE	BSP	METRIC mm	ITEM CODE	BSP	METRIC mm
902/0020x0015	¾" x ½"	20 x 15	902/0040x0025	1½" x 1"	40 x 25	902/0065x0040	2½" x 1½"	65 x 40
902/0025x0015	1" x ½"	25 x 15	902/0040x0032	1½" x 1¼"	40 x 32	902/0065x0050	2½" x 2"	65 x 50
902/0025x0020	1" x ¾"	25 x 20	902/0050x0015	2" x ½"	50 x 15	902/0080x0040	3" x 1½"	80 x 40
902/0032x0015	1¼" x ½"	32 x 15	902/0050x0020	2" x ¾"	50 x 20	902/0080x0050	3" x 2"	80 x 50
902/0032x0020	1¼" x ¾"	32 x 20	902/0050x0025	2" x 1"	50 x 25	902/0080x0065	3" x 2½"	80 x 65
902/0032x0025	1¼" x 1"	32 x 25	902/0050x0032	2" x 1¼"	50 x 32	902/0100x0050	4" x 2"	100 x 50
902/0040x0015	1½" x ½"	40 x 15	902/0050x0040	2" x 1½"	50 x 40	902/0100x0065	4" x 2½"	100 x 65
902/0040x0020	1½" x ¾"	40 x 20	902/0065x0032	2½" x 1¼"	65 x 32	902/0100x0080	4" x 3"	100 x 80

SOCKET

ITEM CODE	BSP	METRIC mm
909/0008	¼"	8
909/0010	⅜"	10
909/0015	½"	15
909/0020	¾"	20
909/0025	1"	25
909/0032	1¼"	32
909/0040	1½"	40
909/0050	2"	50
909/0065	2½"	65
909/0080	3"	80
909/0100	4"	100
909/0150	6"	150

REDUCING SOCKET

ITEM CODE	BSP	METRIC mm	ITEM CODE	BSP	METRIC mm
910/0015x0010	½" x ⅜"	15 x 10	910/0065x0025	2½" x 1"	65 x 25
910/0020x0015	¾" x ½"	20 x 15	910/0065x0032	2½" x 1¼"	65 x 32
910/0025x0015	1" x ½"	25 x 15	910/0065x0040	2½" x 1½"	65 x 40
910/0025x0020	1" x ¾"	25 x 20	910/0065x0050	2½" x 2"	65 x 50
910/0032x0015	1¼" x ½"	32 x 15	910/0080x0020	3" x ¾"	80 x 20
910/0032x0020	1¼" x ¾"	32 x 20	910/0080x0025	3" x 1"	80 x 25
910/0032x0025	1¼" x 1"	32 x 25	910/0080x0032	3" x 1¼"	80 x 32
910/0040x0015	1½" x ½"	40 x 15	910/0080x0040	3" x 1½"	80 x 40
910/0040x0020	1½" x ¾"	40 x 20	910/0080x0050	3" x 2"	80 x 50
910/0040x0025	1½" x 1"	40 x 25	910/0080x0065	3" x 2½"	80 x 65
910/0040x0032	1½" x 1¼"	40 x 32	910/0100x0025	4" x 1"	100 x 25
910/0050x0015	2" x ½"	50 x 15	910/0100x0032	4" x 1¼"	100 x 32
910/0050x0020	2" x ¾"	50 x 20	910/0100x0040	4" x 1½"	100 x 40
910/0050x0025	2" x 1"	50 x 25	910/0100x0050	4" x 2"	100 x 50
910/0050x0032	2" x 1¼"	50 x 32	910/0100x0065	4" x 2½"	100 x 65
910/0050x0040	2" x 1½"	50 x 40	910/0100x0080	4" x 3"	100 x 80



TEE



ITEM CODE	BSP	METRIC mm
912/0008	¼"	8
912/0010	⅜"	10
912/0015	½"	15
912/0020	¾"	20
912/0025	1"	25
912/0032	1¼"	32
912/0040	1½"	40
912/0050	2"	50
912/0065	2½"	65
912/0080	3"	80
912/0100	4"	100
912/0150	6"	150

REDUCING TEE



ITEM CODE	BSP	METRIC mm	ITEM CODE	BSP	METRIC mm
913/0020x0015	¾" x ½"	20 x 15	913/0050x0025	2" x 1"	50 x 25
913/0025x0015	1" x ½"	25 x 15	913/0050x0032	2" x 1¼"	50 x 32
913/0025x0020	1" x ¾"	25 x 20	913/0050x0040	2" x 1½"	50 x 40
913/0032x0015	1¼" x ½"	32 x 15	913/0065x0025	2½" x 1"	65 x 25
913/0032x0020	1¼" x ¾"	32 x 20	913/0065x0032	2½" x 1¼"	65 x 32
913/0032x0025	1¼" x 1"	32 x 25	913/0065x0040	2½" x 1½"	65 x 40
913/0040x0015	1½" x ½"	40 x 15	913/0080x0050	3" x 2"	80 x 50
913/0040x0020	1½" x ¾"	40 x 20	913/0080x0065	3" x 2½"	80 x 65
913/0040x0025	1½" x 1"	40 x 25	913/0100x0050	4" x 2"	100 x 50
913/0040x0032	1½" x 1¼"	40 x 32	913/0100x0065	4" x 2½"	100 x 65
913/0050x0015	2" x ½"	50 x 15	913/0100x0080	4" x 3"	100 x 80
913/0050x0020	2" x ¾"	50 x 20			

TEE ABNORMAL



ITEM CODE	BSP	METRIC
966/0032x0025x0015	1¼" x 1" x ½"	32 x 25 x 15
966/0032x0025x0025	1¼" x 1" x 1"	32 x 25 x 25
966/0040x0032x0015	1½" x 1¼" x ½"	40 x 32 x 15
966/0040x0032x0020	1½" x 1¼" x ¾"	40 x 32 x 20
966/0040x0032x0025	1½" x 1¼" x 1"	40 x 32 x 25
966/0040x0032x0032	1½" x 1¼" x 1¼"	40 x 32 x 32
966/0050x0040x0025	2" x 1½" x 1"	50 x 40 x 25

RUNNING NIPPLE



ITEM CODE	BSP	METRIC mm
906/0015	½"	15
906/0020	¾"	20
906/0025	1"	25
906/0032	1¼"	32
906/0040	1½"	40
906/0050	2"	50

HEXAGON NIPPLE



ITEM CODE	BSP	METRIC mm
915/0010	⅜"	10
915/0015	½"	15
915/0020	¾"	20
915/0025	1"	25
915/0032	1¼"	32
915/0040	1½"	40
915/0050	2"	50
915/0065	2½"	65
915/0080	3"	80
915/0100	4"	100

BARREL NIPPLE



ITEM CODE	BSP	METRIC mm
914/0008	¼"	8
914/0010	⅜"	10
914/0015	½"	15
914/0020	¾"	20
914/0025	1"	25
914/0032	1¼"	32
914/0040	1½"	40
914/0050	2"	50
914/0065	2½"	65
914/0080	3"	80
914/0100	4"	100
914/0150	6"	150

SWAGE NIPPLE



ITEM CODE	BSP	METRIC mm
917/0015	½"	15
917/0020	¾"	20
917/0025	1"	25
917/0032	1¼"	32
917/0040	1½"	40
917/0050	2"	50
917/0065	2½"	65
917/0080	3"	80
917/0100	4"	100
917/0150	6"	150

SWAGE COUPLING



ITEM CODE	BSP	METRIC mm
918/0015	½"	15
918/0020	¾"	20
918/0025	1"	25
918/0032	1¼"	32
918/0040	1½"	40
918/0050	2"	50
918/0065	2½"	65
918/0080	3"	80
918/0100	4"	100
918/0150	6"	150
918/0200	8"	200

UNION CONICAL



ITEM CODE	BSP	METRIC mm
921/0015	½"	15
921/0020	¾"	20
921/0025	1"	25
921/0032	1¼"	32
921/0040	1½"	40
921/0050	2"	50
921/0065	2½"	65
921/0080	3"	80
921/0100	4"	100

HOLLOW PLUG



ITEM CODE	BSP	METRIC mm
923/0008	¼"	8
923/0010	¾"	10
923/0015	½"	15
923/0020	¾"	20
923/0025	1"	25
923/0032	1¼"	32
923/0040	1½"	40
923/0050	2"	50
923/0065	2½"	65
923/0080	3"	80
923/0100	4"	100

ROUND CAP



ITEM CODE	BSP	METRIC mm
922/0010	¾"	10
922/0015	½"	15
922/0020	¾"	20
922/0025	1"	25
922/0032	1¼"	32
922/0040	1½"	40
922/0050	2"	50
922/0065	2½"	65
922/0080	3"	80
922/0100	4"	100

JOHNSON COUPLING



ITEM CODE	BSP	METRIC mm
919/0015	½"	15
919/0020	¾"	20
919/0025	1"	25
919/0032	1¼"	32
919/0040	1½"	40
919/0050	2"	50

LONG SCREW COMPLETE



ITEM CODE	BSP	METRIC mm
933/0015	½"	15
933/0020	¾"	20
933/0025	1"	25
933/0032	1¼"	32
933/0040	1½"	40
933/0050	2"	50

HOLDERBAT



ITEM CODE	BSP	METRIC mm
930/0015	½"	15
930/0020	¾"	20
930/0025	1"	25
930/0032	1¼"	32
930/0040	1½"	40
930/0050	2"	50

BACK NUT



ITEM CODE	BSP	METRIC mm
931/0015	½"	15
931/0020	¾"	20
931/0025	1"	25
931/0032	1¼"	32
931/0040	1½"	40
931/0050	2"	50
931/0065	2½"	65
931/0080	3"	80
931/0100	4"	100

CROSS



ITEM CODE	BSP	METRIC mm
924/0015	½"	15
924/0020	¾"	20
924/0025	1"	25
924/0032	1¼"	32
924/0040	1½"	40
924/0050	2"	50
924/0065	2½"	65
924/0080	3"	80
924/0100	4"	100

STEEL SOCKET



ITEM CODE	BSP	METRIC mm
934/0015	½"	15
934/0020	¾"	20
934/0025	1"	25
934/0032	1¼"	32
934/0040	1½"	40
934/0050	2"	50
934/0065	2½"	65
934/0080	3"	80
934/0100	4"	100

BEND 90° MxF



ITEM CODE	BSP	METRIC mm
905/0015	½"	15
905/0020	¾"	20
905/0025	1"	25
905/0032	1¼"	32
905/0040	1½"	40
905/0050	2"	50
905/0065	2½"	65
905/0080	3"	80
905/0100	4"	100

BEND 90° FxF



ITEM CODE	BSP	METRIC mm
904/0015	½"	15
904/0020	¾"	20
904/0025	1"	25
904/0032	1¼"	32
904/0040	1½"	40
904/0050	2"	50
904/0065	2½"	65
904/0080	3"	80
904/0100	4"	100



REDUCING BUSH



ITEM CODE	BSP	METRIC mm	ITEM CODE	BSP	METRIC mm	ITEM CODE	BSP	METRIC mm
920/0010x0008	3/8" x 1/4"	10 x 8	920/0040x0032	1 1/2" x 1 1/4"	40 x 32	920/0080x0025	3" x 1"	80 x 25
920/0015x0008	1/2" x 1/4"	15 x 8	920/0050x0015	2" x 1/2"	50 x 15	920/0080x0032	3" x 1 1/4"	80 x 32
920/0015x0010	1/2" x 3/8"	15 x 10	920/0050x0020	2" x 3/4"	50 x 20	920/0080x0040	3" x 1 1/2"	80 x 40
920/0020x0008	3/4" x 1/4"	20 x 8	920/0050x0025	2" x 1"	50 x 25	920/0080x0050	3" x 2"	80 x 50
920/0020x0010	3/4" x 3/8"	20 x 10	920/0050x0032	2" x 1 1/4"	50 x 32	920/0080x0065	3" x 2 1/2"	80 x 65
920/0020x0015	3/4" x 1/2"	20 x 15	920/0050x0040	2" x 1 1/2"	50 x 40	920/0100x0015	4" x 1/2"	100 x 15
920/0025x0015	1" x 1/2"	25 x 15	920/0065x0015	2 1/2" x 1/2"	65 x 15	920/0100x0020	4" x 3/4"	100 x 20
920/0025x0020	1" x 3/4"	25 x 20	920/0065x0020	2 1/2" x 3/4"	65 x 20	920/0100x0025	4" x 1"	100 x 25
920/0032x0015	1 1/4" x 1/2"	32 x 15	920/0065x0025	2 1/2" x 1"	65 x 25	920/0100x0032	4" x 1 1/4"	100 x 32
920/0032x0020	1 1/4" x 3/4"	32 x 20	920/0065x0032	2 1/2" x 1 1/4"	65 x 32	920/0100x0040	4" x 1 1/2"	100 x 40
920/0032x0025	1 1/4" x 1"	32 x 25	920/0065x0040	2 1/2" x 1 1/2"	65 x 40	920/0100x0050	4" x 2"	100 x 50
920/0040x0015	1 1/2" x 1/2"	40 x 15	920/0065x0050	2 1/2" x 2"	65 x 50	920/0100x0065	4" x 2 1/2"	100 x 65
920/0040x0020	1 1/2" x 3/4"	40 x 20	920/0080x0015	3" x 1/2"	80 x 15	920/0100x0080	4" x 3"	100 x 80
920/0040x0025	1 1/2" x 1"	40 x 25	920/0080x0020	3" x 3/4"	80 x 20			

STANDPIPE



ITEM CODE	BSP	METRIC mm	ITEM CODE	BSP	METRIC mm	ITEM CODE	BSP	METRIC mm
940/015x0150	1/2" x 150	15 x 150	940/032x0150	1 1/4" x 150	32 x 150	940/065x0150	2 1/2" x 150	65 x 150
940/015x0200	1/2" x 200	15 x 200	940/032x0200	1 1/4" x 200	32 x 200	940/065x0200	2 1/2" x 200	65 x 200
940/015x0300	1/2" x 300	15 x 300	940/032x0300	1 1/4" x 300	32 x 300	940/065x0300	2 1/2" x 300	65 x 300
940/015x0400	1/2" x 400	15 x 400	940/032x0400	1 1/4" x 400	32 x 400	940/065x0400	2 1/2" x 400	65 x 400
940/015x0450	1/2" x 450	15 x 450	940/032x0450	1 1/4" x 450	32 x 450	940/065x0450	2 1/2" x 450	65 x 450
940/015x0500	1/2" x 500	15 x 500	940/032x0500	1 1/4" x 500	32 x 500	940/065x0500	2 1/2" x 500	65 x 500
940/015x0600	1/2" x 600	15 x 600	940/032x0600	1 1/4" x 600	32 x 600	940/065x0600	2 1/2" x 600	65 x 600
940/015x0750	1/2" x 750	15 x 750	940/032x0750	1 1/4" x 750	32 x 750	940/065x0750	2 1/2" x 750	65 x 750
940/015x0900	1/2" x 900	15 x 900	940/032x0900	1 1/4" x 900	32 x 900	940/065x0900	2 1/2" x 900	65 x 900
940/015x1000	1/2" x 1000	15 x 1000	940/032x1000	1 1/4" x 1000	32 x 1000	940/065x1000	2 1/2" x 1000	65 x 1000
940/015x1200	1/2" x 1200	15 x 1200						
940/020x0150	3/4" x 150	20 x 150	940/040x0150	1 1/2" x 150	40 x 150	940/080x0150	3" x 150	80 x 150
940/020x0200	3/4" x 200	20 x 200	940/040x0200	1 1/2" x 200	40 x 200	940/080x0200	3" x 200	80 x 200
940/020x0300	3/4" x 300	20 x 300	940/040x0300	1 1/2" x 300	40 x 300	940/080x0300	3" x 300	80 x 300
940/020x0400	3/4" x 400	20 x 400	940/040x0400	1 1/2" x 400	40 x 400	940/080x0400	3" x 400	80 x 400
940/020x0450	3/4" x 450	20 x 450	940/040x0450	1 1/2" x 450	40 x 450	940/080x0450	3" x 450	80 x 450
940/020x0500	3/4" x 500	20 x 500	940/040x0500	1 1/2" x 500	40 x 500	940/080x0500	3" x 500	80 x 500
940/020x0600	3/4" x 600	20 x 600	940/040x0600	1 1/2" x 600	40 x 600	940/080x0600	3" x 600	80 x 600
940/020x0750	3/4" x 750	20 x 750	940/040x0750	1 1/2" x 750	40 x 750	940/080x0750	3" x 750	80 x 750
940/020x0900	3/4" x 900	20 x 900	940/040x0900	1 1/2" x 900	40 x 900	940/080x0900	3" x 900	80 x 900
940/020x1000	3/4" x 1000	20 x 1000	940/040x1000	1 1/2" x 1000	40 x 1000	940/080x1000	3" x 1000	80 x 1000
940/020x1200	3/4" x 1200	20 x 1200						
940/025x0150	1" x 150	25 x 150	940/050x0150	2" x 150	50 x 150	940/100x0150	4" x 150	100 x 150
940/025x0200	1" x 200	25 x 200	940/050x0200	2" x 200	50 x 200	940/100x0200	4" x 200	100 x 200
940/025x0300	1" x 300	25 x 300	940/050x0300	2" x 300	50 x 300	940/100x0300	4" x 300	100 x 300
940/025x0400	1" x 400	25 x 400	940/050x0400	2" x 400	50 x 400	940/100x0400	4" x 400	100 x 400
940/025x0450	1" x 450	25 x 450	940/050x0450	2" x 450	50 x 450	940/100x0450	4" x 450	100 x 450
940/025x0500	1" x 500	25 x 500	940/050x0500	2" x 500	50 x 500	940/100x0500	4" x 500	100 x 500
940/025x0600	1" x 600	25 x 600	940/050x0600	2" x 600	50 x 600	940/100x0600	4" x 600	100 x 600
940/025x0750	1" x 750	25 x 750	940/050x0750	2" x 750	50 x 750	940/100x0750	4" x 750	100 x 750
940/025x0900	1" x 900	25 x 900	940/050x0900	2" x 900	50 x 900	940/100x0900	4" x 900	100 x 900
940/025x1000	1" x 1000	25 x 1000	940/050x1000	2" x 1000	50 x 1000	940/100x1000	4" x 1000	100 x 1000

TABLE 16 - THREADED FLANGE



ITEM CODE	BSP	METRIC mm
937/0015	½"	15
937/0020	¾"	20
937/0025	1"	25
937/0032	1¼"	32
937/0040	1½"	40
937/0050	2"	50
937/0065	2½"	65
937/0080	3"	80
937/0100	4"	100
937/0150	6"	150

TABLE D - THREADED FLANGE



ITEM CODE	BSP	METRIC mm
936/0015	½"	15
936/0020	¾"	20
936/0025	1"	25
936/0032	1¼"	32
936/0040	1½"	40
936/0050	2"	50
936/0065	2½"	65
936/0080	3"	80
936/0100	4"	100
936/0150	6"	150

TABLE D BACKING RING



ITEM CODE	METRIC mm
938/0063	63
938/0075	75
938/0090	90
938/0110	110
938/0125	125
938/0140	140
938/0160	160
938/0200	200
938/0250	250
938/0315	315

1600/3 SLIP FLANGE



ITEM CODE	METRIC mm
939/0040	40
939/0050	50
939/0065	65
939/0080	80
939/0100	100
939/0150	150
939/0200	200
939/0250	250
939/0300	300
939/0350	350
939/0400	400

1000/3 SLIP FLANGE



ITEM CODE	METRIC mm
926/0040	40
926/0050	50
926/0065	65
926/0080	80
926/0100	100
926/0125	125
926/0150	150
926/0200	200
926/0250	250
926/0300	300
926/0350	350

TABLE D SLIP FLANGE



ITEM CODE	METRIC mm
927/0040	40
927/0050	50
927/0065	65
927/0080	80
927/0100	100
927/0125	125
927/0150	150
927/0200	200
927/0250	250
927/0300	300
927/0350	350

BLIND TD FLANGE



ITEM CODE	METRIC mm
928/0032	32
928/0040	40
928/0050	50
928/0065	65
928/0080	80
928/0100	100
928/0125	125
928/0150	150
928/0200	200
928/0250	250
928/0300	300

BLIND FLANGE 1600/8



ITEM CODE	METRIC mm
925/0050	50
925/0065	65
925/0080	80
925/0100	100
925/0150	150
925/0200	200

RUBBER EXPANSION JOINTS

Table 1600/3



ITEM CODE	METRIC mm
982/0032	32
982/0040	40
982/0050	50
982/0065	65
982/0080	80
982/0100	100
982/0125	125
982/0150	150
982/0200	200
982/0250	250

RUBBER EXPANSION JOINTS

Table 1000/3



ITEM CODE	METRIC mm
983/0032	32
983/0040	40
983/0050	50
983/0065	65
983/0080	80
983/0100	100
983/0125	125
983/0150	150
983/0200	200
983/0250	250

TABLE D - FF GASKET



ITEM CODE	METRIC mm
980/0032	32
980/0040	40
980/0050	50
980/0065	65
980/0080	80
980/0100	100
980/0125	125
980/0150	150
980/0200	200
980/0250	250

TABLE 16 - FF GASKET



ITEM CODE	METRIC mm
981/0032	32
981/0040	40
981/0050	50
981/0065	65
981/0080	80
981/0100	100
981/0125	125
981/0150	150
981/0200	200
981/0250	250





**LONGER
LASTING**

**PIN HOLE
FREE**



**TAPERED
THREADS**

MINGGALV.COM

ELBOW 90°



ITEM CODE	BSP	METRIC mm
950/0008	¼"	8
950/0010	⅜"	10
950/0015	½"	15
950/0020	¾"	20
950/0025	1"	25
950/0032	1¼"	32
950/0040	1½"	40
950/0050	2"	50
950/0065	2½"	65
950/0080	3"	80
950/0100	4"	100
950/0150	6"	150

ELBOW 45°



ITEM CODE	BSP	METRIC mm
953/0015	½"	15
953/0020	¾"	20
953/0025	1"	25
953/0032	1¼"	32
953/0040	1½"	40
953/0050	2"	50
953/0065	2½"	65
953/0080	3"	80
953/0100	4"	100
953/0150	6"	150

ELBOW 90° Mx F



ITEM CODE	BSP	METRIC mm
951/0015	½"	15
951/0020	¾"	20
951/0025	1"	25
951/0032	1¼"	32
951/0040	1½"	40
951/0050	2"	50
951/0065	2½"	65
951/0080	3"	80
951/0100	4"	100

REDUCING ELBOW 90°



ITEM CODE	BSP	METRIC mm	ITEM CODE	BSP	METRIC mm	ITEM CODE	BSP	METRIC mm
952/0020x0015	¾" x ½"	20 x 15	952/0040x0025	1½" x 1"	40 x 25	952/0065x0040	2½" x 1½"	65 x 40
952/0025x0015	1" x ½"	25 x 15	952/0040x0032	1½" x 1¼"	40 x 32	952/0065x0050	2½" x 2"	65 x 50
952/0025x0020	1" x ¾"	25 x 20	952/0050x0015	2" x ½"	50 x 15	952/0080x0040	3" x 1½"	80 x 40
952/0032x0015	1¼" x ½"	32 x 15	952/0050x0020	2" x ¾"	50 x 20	952/0080x0050	3" x 2"	80 x 50
952/0032x0020	1¼" x ¾"	32 x 20	952/0050x0025	2" x 1"	50 x 25	952/0080x0065	3" x 2½"	80 x 65
952/0032x0025	1¼" x 1"	32 x 25	952/0050x0032	2" x 1¼"	50 x 32	952/0100x0050	4" x 2"	100 x 50
952/0040x0015	1½" x ½"	40 x 15	952/0050x0040	2" x 1½"	50 x 40	952/0100x0065	4" x 2½"	100 x 65
952/0040x0020	1½" x ¾"	40 x 20	952/0065x0032	2½" x 1¼"	65 x 32	952/0100x0080	4" x 3"	100 x 80

SOCKET



ITEM CODE	BSP	METRIC mm
959/0008	¼"	8
959/0010	⅜"	10
959/0015	½"	15
959/0020	¾"	20
959/0025	1"	25
959/0032	1¼"	32
959/0040	1½"	40
959/0050	2"	50
959/0065	2½"	65
959/0080	3"	80
959/0100	4"	100
959/0150	6"	150

REDUCING SOCKET



ITEM CODE	BSP	METRIC mm	ITEM CODE	BSP	METRIC mm
960/0015x0010	½" x ⅜"	15 x 10	960/0065x0025	2½" x 1"	65 x 25
960/0020x0015	¾" x ½"	20 x 15	960/0065x0032	2½" x 1¼"	65 x 32
960/0025x0015	1" x ½"	25 x 15	960/0065x0040	2½" x 1½"	65 x 40
960/0025x0020	1" x ¾"	25 x 20	960/0065x0050	2½" x 2"	65 x 50
960/0032x0015	1¼" x ½"	32 x 15	960/0080x0020	3" x ¾"	80 x 20
960/0032x0020	1¼" x ¾"	32 x 20	960/0080x0025	3" x 1"	80 x 25
960/0032x0025	1¼" x 1"	32 x 25	960/0080x0032	3" x 1¼"	80 x 32
960/0040x0015	1½" x ½"	40 x 15	960/0080x0040	3" x 1½"	80 x 40
960/0040x0020	1½" x ¾"	40 x 20	960/0080x0050	3" x 2"	80 x 50
960/0040x0025	1½" x 1"	40 x 25	960/0080x0065	3" x 2½"	80 x 65
960/0040x0032	1½" x 1¼"	40 x 32	960/0100x0025	4" x 1"	100 x 25
960/0050x0015	2" x ½"	50 x 15	960/0100x0032	4" x 1¼"	100 x 32
960/0050x0020	2" x ¾"	50 x 20	960/0100x0040	4" x 1½"	100 x 40
960/0050x0025	2" x 1"	50 x 25	960/0100x0050	4" x 2"	100 x 50
960/0050x0032	2" x 1¼"	50 x 32	960/0100x0065	4" x 2½"	100 x 65
960/0050x0040	2" x 1½"	50 x 40	960/0100x0080	4" x 3"	100 x 80



TEE



ITEM CODE	BSP	METRIC mm
962/0008	¼"	8
962/0010	⅜"	10
962/0015	½"	15
962/0020	¾"	20
962/0025	1"	25
962/0032	1¼"	32
962/0040	1½"	40
962/0050	2"	50
962/0065	2½"	65
962/0080	3"	80
962/0100	4"	100
962/0150	6"	150

REDUCING TEE



ITEM CODE	BSP	METRIC mm	ITEM CODE	BSP	METRIC mm
963/0020x0015	¾" x ½"	20 x 15	963/0050x0025	2" x 1"	50 x 25
963/0025x0015	1" x ½"	25 x 15	963/0050x0032	2" x 1¼"	50 x 32
963/0025x0020	1" x ¾"	25 x 20	963/0050x0040	2" x 1½"	50 x 40
963/0032x0015	1¼" x ½"	32 x 15	963/0065x0025	2½" x 1"	65 x 25
963/0032x0020	1¼" x ¾"	32 x 20	963/0065x0032	2½" x 1¼"	65 x 32
963/0032x0025	1¼" x 1"	32 x 25	963/0065x0040	2½" x 1½"	65 x 40
963/0040x0015	1½" x ½"	40 x 15	963/0080x0050	3" x 2"	80 x 50
963/0040x0020	1½" x ¾"	40 x 20	963/0080x0065	3" x 2½"	80 x 65
963/0040x0025	1½" x 1"	40 x 25	963/0100x0050	4" x 2"	100 x 50
963/0040x0032	1½" x 1¼"	40 x 32	963/0100x0065	4" x 2½"	100 x 65
963/0050x0015	2" x ½"	50 x 15	963/0100x0080	4" x 3"	100 x 80
963/0050x0020	2" x ¾"	50 x 20			

ABNORMAL TEE



ITEM CODE	BSP	METRIC mm
966/0032x0025x0015	1¼" x 1" x ½"	32 x 25 x 15
966/0032x0025x0025	1¼" x 1" x 1"	32 x 25 x 25
966/0040x0032x0015	1½" x 1¼" x ½"	40 x 32 x 15
966/0040x0032x0020	1½" x 1¼" x ¾"	40 x 32 x 20
966/0040x0032x0025	1½" x 1¼" x 1"	40 x 32 x 25
966/0040x0032x0032	1½" x 1¼" x 1¼"	40 x 32 x 32
966/0050x0032x0025	2" x 1¼" x 1"	50 x 32 x 25
966/0050x0040x0025	2" x 1½" x 1"	50 x 40 x 25

BEND 90° Mx F



ITEM CODE	BSP	METRIC mm
955/0015	½"	15
955/0020	¾"	20
955/0025	1"	25
955/0032	1¼"	32
955/0040	1½"	40
955/0050	2"	50
955/0065	2½"	65
955/0080	3"	80
955/0100	4"	100

BEND 90° Fx F



ITEM CODE	BSP	METRIC mm
954/0015	½"	15
954/0020	¾"	20
954/0025	1"	25
954/0032	1¼"	32
954/0040	1½"	40
954/0050	2"	50
954/0065	2½"	65
954/0080	3"	80
954/0100	4"	100

BARREL NIPPLE



ITEM CODE	BSP	METRIC mm
916/0008	¼"	8
916/0010	⅜"	10
916/0015	½"	15
916/0020	¾"	20
916/0025	1"	25
916/0032	1¼"	32
916/0040	1½"	40
916/0050	2"	50
916/0065	2½"	65
916/0080	3"	80
916/0100	4"	100
916/0150	6"	150

HEXAGON NIPPLE



ITEM CODE	BSP	METRIC mm
965/0010	⅜"	10
965/0015	½"	15
965/0020	¾"	20
965/0025	1"	25
965/0032	1¼"	32
965/0040	1½"	40
965/0050	2"	50
965/0065	2½"	65
965/0080	3"	80
965/0100	4"	100

SWAGE NIPPLE



ITEM CODE	BSP	METRIC mm
967/0015	½"	15
967/0020	¾"	20
967/0025	1"	25
967/0032	1¼"	32
967/0040	1½"	40
967/0050	2"	50
967/0065	2½"	65
967/0080	3"	80
967/0100	4"	100
967/0150	6"	150

CROSS



ITEM CODE	BSP	METRIC mm
974/0015	½"	15
974/0020	¾"	20
974/0025	1"	25
974/0032	1¼"	32
974/0040	1½"	40
974/0050	2"	50
974/0065	2½"	65
974/0080	3"	80
974/0100	4"	100

STEEL SOCKET



ITEM CODE	BSP	METRIC mm
935/0015	½"	15
935/0020	¾"	20
935/0025	1"	25
935/0032	1¼"	32
935/0040	1½"	40
935/0050	2"	50
935/0065	2½"	65
935/0080	3"	80
935/0100	4"	100

UNION CONICAL



ITEM CODE	BSP	METRIC mm
971/0015	½"	15
971/0020	¾"	20
971/0025	1"	25
971/0032	1¼"	32
971/0040	1½"	40
971/0050	2"	50
971/0065	2½"	65
971/0080	3"	80
971/0100	4"	100

JOHNSON COUPLING



ITEM CODE	BSP	METRIC mm
969/0015	½"	15
969/0020	¾"	20
969/0025	1"	25
969/0032	1¼"	32
969/0040	1½"	40
969/0050	2"	50

ROUND CAP



ITEM CODE	BSP	METRIC mm
972/0010	⅜"	10
972/0015	½"	15
972/0020	¾"	20
972/0025	1"	25
972/0032	1¼"	32
972/0040	1½"	40
972/0050	2"	50
972/0065	2½"	65
972/0080	3"	80
972/0100	4"	100

HOLLOW PLUG



ITEM CODE	BSP	METRIC mm
973/0010	⅜"	10
973/0015	½"	15
973/0020	¾"	20
973/0025	1"	25
973/0032	1¼"	32
973/0040	1½"	40
973/0050	2"	50
973/0065	2½"	65
973/0080	3"	80
973/0100	4"	100

REDUCING BUSH



ITEM CODE	BSP	METRIC mm	ITEM CODE	BSP	METRIC mm	ITEM CODE	BSP	METRIC mm
970/0010x0008	⅜" x ¼"	10 x 8	970/0040x0032	1½" x 1¼"	40 x 32	970/0080x0025	3" x 1"	80 x 25
970/0015x0008	½" x ¼"	15 x 8	970/0050x0015	2" x ½"	50 x 15	970/0080x0032	3" x 1¼"	80 x 32
970/0015x0010	½" x ⅜"	15 x 10	970/0050x0020	2" x ¾"	50 x 20	970/0080x0040	3" x 1½"	80 x 40
970/0020x0008	¾" x ¼"	20 x 8	970/0050x0025	2" x 1"	50 x 25	970/0080x0050	3" x 2"	80 x 50
970/0020x0010	¾" x ⅜"	20 x 10	970/0050x0032	2" x 1¼"	50 x 32	970/0080x0065	3" x 2½"	80 x 65
970/0020x0015	¾" x ½"	20 x 15	970/0050x0040	2" x 1½"	50 x 40	970/0100x0015	4" x ½"	100 x 15
970/0025x0015	1" x ½"	25 x 15	970/0065x0015	2½" x ½"	65 x 15	970/0100x0020	4" x ¾"	100 x 20
970/0025x0020	1" x ¾"	25 x 20	970/0065x0020	2½" x ¾"	65 x 20	970/0100x0025	4" x 1"	100 x 25
970/0032x0015	1¼" x ½"	32 x 15	970/0065x0025	2½" x 1"	65 x 25	970/0100x0032	4" x 1¼"	100 x 32
970/0032x0020	1¼" x ¾"	32 x 20	970/0065x0032	2½" x 1¼"	65 x 32	970/0100x0040	4" x 1½"	100 x 40
970/0032x0025	1¼" x 1"	32 x 25	970/0065x0040	2½" x 1½"	65 x 40	970/0100x0050	4" x 2"	100 x 50
970/0040x0015	1½" x ½"	40 x 15	970/0065x0050	2½" x 2"	65 x 50	970/0100x0065	4" x 2½"	100 x 65
970/0040x0020	1½" x ¾"	40 x 20	970/0080x0015	3" x ½"	80 x 15	970/0100x0080	4" x 3"	100 x 80
970/0040x0025	1½" x 1"	40 x 25	970/0080x0020	3" x ¾"	80 x 20			

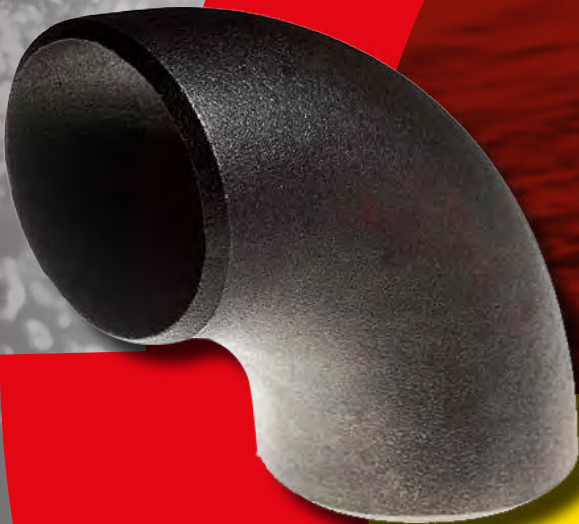




**PROVEN
DURABILITY**

**PEACE OF
MIND**

**HOT
FORMED**



MINGGALV.COM

ELBOW LONG RADIUS 90°

CODE	SIZE mm	OD mm	ID mm
942/0015	15	21.7	16.1
942/0020	20	27.2	21.6
942/0025	25	34.0	27.6
942/0032	32	42.7	35.7
942/0040	40	48.6	41.6
942/0050	50	60.5	52.9
942/0065	65	76.3	67.9
942/0080	80	89.1	80.7
942/0090	90	101.6	93.2
942/0100	100	114.3	105.3
942/0125	125	139.8	130.8
942/0150	150	165.2	155.2
942/0200	*200	219.1	207.5
942/0250	*250	273.0	259.8
942/0300	*300	323.8	310.0
942/0350	350	355.6	339.8
942/0400	400	406.4	390.6
942/0450	450	457.2	441.4
942/0500	500	508.0	492.2
942/0550	550	558.8	543.0
942/0600	600	609.6	593.8

ELBOW SHORT RADIUS 90°

CODE	SIZE mm	OD mm	ID mm
943/0015	15	21.7	16.1
943/0020	20	27.2	21.6
943/0025	25	34.0	27.6
943/0032	32	42.7	35.7
943/0040	40	48.6	41.6
943/0050	50	60.5	52.9
943/0065	65	76.3	67.9
943/0080	80	89.1	80.7
943/0090	90	101.6	93.2
943/0100	100	114.3	105.3
943/0125	125	139.8	130.8
943/0150	150	165.2	155.2
943/0200	*200	219.1	207.5
943/0250	*250	273.0	259.8
943/0300	*300	323.8	310.0
943/0350	350	355.6	339.8
943/0400	400	406.4	390.6
943/0450	450	457.2	441.4
943/0500	500	508.0	492.2
943/0550	550	558.8	543.0
943/0600	600	609.6	593.8

ELBOW 45°

CODE	SIZE mm	OD mm	ID mm
944/0015	15	21.7	16.1
944/0020	20	27.2	21.6
944/0025	25	34.0	27.6
944/0032	32	42.7	35.7
944/0040	40	48.6	41.6
944/0050	50	60.5	52.9
944/0065	65	76.3	67.9
944/0080	80	89.1	80.7
944/0090	90	101.6	93.2
944/0100	100	114.3	105.3
944/0125	125	139.8	130.8
944/0150	150	165.2	155.2
944/0200	*200	219.1	207.5
944/0250	*250	273.0	259.8
944/0300	*300	323.8	310.0
944/0350	350	355.6	339.8
944/0400	400	406.4	390.6
944/0450	450	457.2	441.4
944/0500	500	508.0	492.2
944/0550	550	558.8	543.0
944/0600	600	609.6	593.8

TEE

CODE	SIZE mm	OD mm	ID mm
947/0015	15	21.7	16.1
947/0020	20	27.2	21.6
947/0025	25	34.0	27.6
947/0032	32	42.7	35.7
947/0040	40	48.6	41.6
947/0050	50	60.5	52.9
947/0065	65	76.3	67.9
947/0080	80	89.1	80.7
947/0090	90	101.6	93.2
947/0100	100	114.3	105.3
947/0125	125	139.8	130.8
947/0150	150	165.2	155.2
947/0200	*200	219.1	207.5
947/0250	*250	273.0	259.8
947/0300	*300	323.8	310.0
947/0350	350	355.6	339.8
947/0400	400	406.4	390.6
947/0450	450	457.2	441.4
947/0500	500	508.0	492.2
947/0550	550	558.8	543.0
947/0600	600	609.6	593.8

CAP

CODE	SIZE mm	OD mm	ID mm
949/0015	15	21.7	16.1
949/0020	20	27.2	21.6
949/0025	25	34.0	27.6
949/0032	32	42.7	35.7
949/0040	40	48.6	41.6
949/0050	50	60.5	52.9
949/0065	65	76.3	67.9
949/0080	80	89.1	80.7
949/0090	90	101.6	93.2
949/0100	100	114.3	105.3
949/0125	125	139.8	130.8
949/0150	150	165.2	155.2
949/0200	*200	219.1	207.5
949/0250	*250	273.0	259.8
949/0300	*300	323.8	310.0
949/0350	350	355.6	339.8
949/0400	400	406.4	390.6
949/0450	450	457.2	441.4
949/0500	500	508.0	492.2
949/0550	550	558.8	543.0
949/0600	600	609.6	593.8



REDUCER CONCENTRIC



CODE	SIZE mm	OD	CODE	SIZE mm	OD	CODE	SIZE mm	OD
945/0020x0015	20 x 15	27.2 x 21.7	945/0100x0050	100 x 50	114.3 x 60.5	945/0350x0200	350 x 200	355.6 x 219.1
945/0025x0015	25 x 15	24.0 x 21.7	945/0100x0065	100 x 65	114.3 x 76.3	945/0350x0250	*350 x 250	355.6 x 273.0
945/0025x0020	25 x 20	34.0 x 27.2	945/0100x0080	100 x 80	114.3 x 89.1	945/0350x0300	*350 x 300	355.6 x 323.8
945/0032x0015	32 x 15	42.7 x 21.7	945/0100x0090	100 x 90	114.3 x 101.6	945/0400x0150	400 x 150	406.4 x 165.2
945/0032x0020	32 x 20	42.7 x 27.2	945/0125x0050	125 x 50	139.8 x 60.5	945/0400x0200	*400 x 200	406.4 x 219.1
945/0032x0025	32 x 25	42.7 x 34.0	945/0125x0065	125 x 65	139.8 x 76.3	945/0400x0250	*400 x 250	406.4 x 273.0
945/0040x0015	40 x 15	48.6 x 21.7	945/0125x0080	125 x 80	139.8 x 89.1	945/0400x0300	400 x 300	406.4 x 318.5
945/0040x0020	40 x 20	48.6 x 27.2	945/0125x0090	125 x 90	139.8 x 101.6	945/0400x0350	400 x 350	406.4 x 355.6
945/0040x0025	40 x 25	48.6 x 34.0	945/0125x0100	125 x 100	139.8 x 114.3	945/0450x0250	*450 x 250	457.2 x 273.0
945/0040x0032	40 x 32	48.6 x 42.7	945/0150x0065	150 x 65	165.2 x 76.3	945/0450x0300	*450 x 300	457.2 x 323.8
945/0050x0020	50 x 20	60.5 x 27.2	945/0150x0080	150 x 80	165.2 x 89.1	945/0450x0350	450 x 350	457.2 x 355.6
945/0050x0025	50 x 25	60.5 x 34.0	945/0150x0090	150 x 90	165.2 x 101.6	945/0500x0400	450 x 400	457.2 x 406.4
945/0050x0032	50 x 32	60.5 x 42.7	945/0150x0100	150 x 100	165.2 x 114.3	945/0500x0200	*500 x 200	508.0 x 219.1
945/0050x0040	50 x 40	60.5 x 48.6	945/0150x0125	150 x 125	165.2 x 139.8	945/0500x0250	*500 x 250	508.0 x 273.0
945/0065x0025	65 x 25	76.3 x 34.0	945/0200x0080	*200 x 80	219.1 x 89.1	945/0500x0300	*500 x 300	508.0 x 323.8
945/0065x0032	65 x 32	76.3 x 42.7	945/0200x0090	*200 x 90	219.1 x 101.6	945/0500x0350	500 x 350	508.0 x 355.6
945/0065x0040	65 x 40	76.3 x 48.6	945/0200x0100	*200 x 100	219.1 x 114.3	945/0500x0400	500 x 400	508.0 x 406.4
945/0065x0050	65 x 50	76.3 x 60.5	945/0200x0125	*200 x 125	219.1 x 139.8	945/0500x0450	500 x 450	508.0 x 457.2
945/0080x0032	80 x 32	89.1 x 42.7	945/0200x0150	*200 x 150	219.1 x 165.2	945/0550x0350	550 x 350	508.8 x 355.6
945/0080x0040	80 x 40	89.1 x 48.6	945/0250x0100	*250 x 100	273.0 x 114.3	945/0550x0400	550 x 400	558.8 x 406.4
945/0080x0050	80 x 50	89.1 x 60.5	945/0250x0125	*250 x 125	273.0 x 139.8	945/0550x0450	550 x 450	558.8 x 457.2
945/0080x0065	80 x 65	89.1 x 76.3	945/0250x0150	*250 x 150	273.0 x 165.2	945/0550x0500	550 x 500	558.8 x 508.0
945/0090x0032	90 x 32	101.8 x 42.7	945/0250x0200	*250 x 200	273.0 x 219.1	945/0600x0400	600 x 400	609.6 x 406.4
945/0090x0040	90 x 40	101.6 x 48.6	945/0300x0125	*300 x 125	323.8 x 139.8	945/0600x0450	600 x 450	609.6 x 457.2
945/0090x0050	90 x 50	101.6 x 60.5	945/0300x0150	*300 x 150	323.8 x 165.2	945/0600x0500	600 x 500	609.6 x 508.0
945/0090x0065	90 x 65	101.6 x 76.3	945/0300x0200	*300 x 200	323.8 x 219.1	945/0600x0550	600 x 550	609.6 x 558.8
945/0090x0080	90 x 80	101.6 x 89.1	945/0300x0250	*300 x 250	323.8 x 273.0			
945/0100x0040	100 x 40	114.3 x 48.6	945/0350x0150	350 x 150	355.6 x 165.2			

REDUCER ECCENTRIC



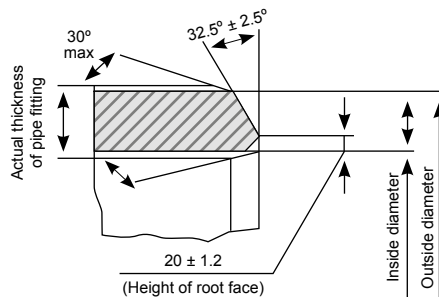
CODE	SIZE mm	OD	CODE	SIZE mm	OD	CODE	SIZE mm	OD
946/0020x0015	20 x 15	27.2 x 21.7	946/0100x0050	100 x 50	114.3 x 60.5	946/0350x0200	350 x 200	355.6 x 219.1
946/0025x0015	25 x 15	24.0 x 21.7	946/0100x0065	100 x 65	114.3 x 76.3	946/0350x0250	*350 x 250	355.6 x 273.0
946/0025x0020	25 x 20	34.0 x 27.2	946/0100x0080	100 x 80	114.3 x 89.1	946/0350x0300	*350 x 300	355.6 x 323.8
946/0032x0015	32 x 15	42.7 x 21.7	946/0100x0090	100 x 90	114.3 x 101.6	946/0400x0150	400 x 150	406.4 x 165.2
946/0032x0020	32 x 20	42.7 x 27.2	946/0125x0050	125 x 50	139.8 x 60.5	946/0400x0200	*400 x 200	406.4 x 219.1
946/0032x0025	32 x 25	42.7 x 34.0	946/0125x0065	125 x 65	139.8 x 76.3	946/0400x0250	*400 x 250	406.4 x 273.0
946/0040x0015	40 x 15	48.6 x 21.7	946/0125x0080	125 x 80	139.8 x 89.1	946/0400x0300	400 x 300	406.4 x 318.5
946/0040x0020	40 x 20	48.6 x 27.2	946/0125x0090	125 x 90	139.8 x 101.6	946/0400x0350	400 x 350	406.4 x 355.6
946/0040x0025	40 x 25	48.6 x 34.0	946/0125x0100	125 x 100	139.8 x 114.3	946/0450x0250	*450 x 250	457.2 x 273.0
946/0040x0032	40 x 32	48.6 x 42.7	946/0150x0065	150 x 65	165.2 x 76.3	946/0450x0300	*450 x 300	457.2 x 323.8
946/0050x0020	50 x 20	60.5 x 27.2	946/0150x0080	150 x 80	165.2 x 89.1	946/0450x0350	450 x 350	457.2 x 355.6
946/0050x0025	50 x 25	60.5 x 34.0	946/0150x0090	150 x 90	165.2 x 101.6	946/0450x0400	450 x 400	457.2 x 406.4
946/0050x0032	50 x 32	60.5 x 42.7	946/0150x0100	150 x 100	165.2 x 114.3	946/0500x0200	*500 x 200	508.0 x 219.1
946/0050x0040	50 x 40	60.5 x 48.6	946/0150x0125	150 x 125	165.2 x 139.8	946/0500x0250	*500 x 250	508.0 x 273.0
946/0065x0025	65 x 25	76.3 x 34.0	946/0200x0080	*200 x 80	219.1 x 89.1	946/0500x0300	*500 x 300	508.0 x 323.8
946/0065x0032	65 x 32	76.3 x 42.7	946/0200x0090	*200 x 90	219.1 x 101.6	946/0500x0350	500 x 350	508.0 x 355.6
946/0065x0040	65 x 40	76.3 x 48.6	946/0200x0100	*200 x 100	219.1 x 114.3	946/0500x0400	500 x 400	508.0 x 406.4
946/0065x0050	65 x 50	76.3 x 60.5	946/0200x0125	*200 x 125	219.1 x 139.8	946/0500x0450	500 x 450	508.0 x 457.2
946/0080x0032	80 x 32	89.1 x 42.7	946/0200x0150	*200 x 150	219.1 x 165.2	946/0550x0350	550 x 350	508.8 x 355.6
946/0080x0040	80 x 40	89.1 x 48.6	946/0250x0100	*250 x 100	273.0 x 114.3	946/0550x0400	550 x 400	558.8 x 406.4
946/0080x0050	80 x 50	89.1 x 60.5	946/0250x0125	*250 x 125	273.0 x 139.8	946/0550x0450	550 x 450	558.8 x 457.2
946/0080x0065	80 x 65	89.1 x 76.3	946/0250x0150	*250 x 150	273.0 x 165.2	946/0550x0500	550 x 500	558.8 x 508.0
946/0090x0032	90 x 32	101.8 x 42.7	946/0250x0200	*250 x 200	273.0 x 219.1	946/0600x0400	600 x 400	609.6 x 406.4
946/0090x0040	90 x 40	101.6 x 48.6	946/0300x0125	*300 x 125	323.8 x 139.8	946/0600x0450	600 x 450	609.6 x 457.2
946/0090x0050	90 x 50	101.6 x 60.5	946/0300x0150	*300 x 150	323.8 x 165.2	946/0600x0500	600 x 500	609.6 x 508.0
946/0090x0065	90 x 65	101.6 x 76.3	946/0300x0200	*300 x 200	323.8 x 219.1	946/0600x0550	600 x 550	609.6 x 558.8
946/0090x0080	90 x 80	101.6 x 89.1	946/0300x0250	*300 x 250	323.8 x 273.0			
946/0100x0040	100 x 40	114.3 x 48.6	946/0350x0150	350 x 150	355.6 x 165.2			

TEE REDUCING



CODE	SIZE mm	OD	CODE	SIZE mm	OD	CODE	SIZE mm	OD
948/0020x0015	20 x 15	27.2 x 21.7	948/0100x0050	100 x 50	114.3 x 60.5	948/0350x0200	350 x 200	355.6 x 219.1
948/0025x0015	25 x 15	24.0 x 21.7	948/0100x0065	100 x 65	114.3 x 76.3	948/0350x0250	*350 x 250	355.6 x 273.0
948/0025x0020	25 x 20	34.0 x 27.2	948/0100x0080	100 x 80	114.3 x 89.1	948/0350x0300	*350 x 300	355.6 x 323.8
948/0032x0015	32 x 15	42.7 x 21.7	948/0100x0090	100 x 90	114.3 x 101.6	948/0400x0150	400 x 150	406.4 x 165.2
948/0032x0020	32 x 20	42.7 x 27.2	948/0125x0050	125 x 50	139.8 x 60.5	948/0400x0200	*400 x 200	406.4 x 219.1
948/0032x0025	32 x 25	42.7 x 34.0	948/0125x0065	125 x 65	139.8 x 76.3	948/0400x0250	*400 x 250	406.4 x 273.0
948/0040x0015	40 x 15	48.6 x 21.7	948/0125x0080	125 x 80	139.8 x 89.1	948/0400x0300	400 x 300	406.4 x 318.5
948/0040x0020	40 x 20	48.6 x 27.2	948/0125x0090	125 x 90	139.8 x 101.6	948/0400x0350	400 x 350	406.4 x 355.6
948/0040x0025	40 x 25	48.6 x 34.0	948/0125x0100	125 x 100	139.8 x 114.3	948/0450x0250	*450 x 250	457.2 x 273.0
948/0040x0032	40 x 32	48.6 x 42.7	948/0150x0065	150 x 65	165.2 x 76.3	948/0450x0300	*450 x 300	457.2 x 323.8
948/0050x0020	50 x 20	60.5 x 27.2	948/0150x0080	150 x 80	165.2 x 89.1	948/0450x0350	450 x 350	457.2 x 355.6
948/0050x0025	50 x 25	60.5 x 34.0	948/0150x0090	150 x 90	165.2 x 101.6	948/0450x0400	450 x 400	457.2 x 406.4
948/0050x0032	50 x 32	60.5 x 42.7	948/0150x0100	150 x 100	165.2 x 114.3	948/0500x0200	*500 x 200	508.0 x 219.1
948/0050x0040	50 x 40	60.5 x 48.6	948/0150x0125	150 x 125	165.2 x 139.8	948/0500x0250	*500 x 250	508.0 x 273.0
948/0065x0025	65 x 25	76.3 x 34.0	948/0200x0080	*200 x 80	219.1 x 89.1	948/0500x0300	*500 x 300	508.0 x 323.8
948/0065x0032	65 x 32	76.3 x 42.7	948/0200x0090	*200 x 90	219.1 x 101.6	948/0500x0350	500 x 350	508.0 x 355.6
948/0065x0040	65 x 40	76.3 x 48.6	948/0200x0100	*200 x 100	219.1 x 114.3	948/0500x0400	500 x 400	508.0 x 406.4
948/0065x0050	65 x 50	76.3 x 60.5	948/0200x0125	*200 x 125	219.1 x 139.8	948/0500x0450	500 x 450	508.0 x 457.2
948/0080x0032	80 x 32	89.1 x 42.7	948/0200x0150	*200 x 150	219.1 x 165.2	948/0550x0350	550 x 350	508.8 x 355.6
948/0080x0040	80 x 40	89.1 x 48.6	948/0250x0100	*250 x 100	273.0 x 114.3	948/0550x0400	550 x 400	558.8 x 406.4
948/0080x0050	80 x 50	89.1 x 60.5	948/0250x0125	*250 x 125	273.0 x 139.8	948/0550x0450	550 x 450	558.8 x 457.2
948/0080x0065	80 x 65	89.1 x 76.3	948/0250x0150	*250 x 150	273.0 x 165.2	948/0550x0500	550 x 500	558.8 x 508.0
948/0090x0032	90 x 32	101.6 x 42.7	948/0250x0200	*250 x 200	273.0 x 219.1	948/0600x0400	600 x 400	609.6 x 406.4
948/0090x0040	90 x 40	101.6 x 48.6	948/0300x0125	*300 x 125	323.8 x 139.8	948/0600x0450	600 x 450	609.6 x 457.2
948/0090x0050	90 x 50	101.6 x 60.5	948/0300x0150	*300 x 150	323.8 x 165.2	948/0600x0500	600 x 500	609.6 x 508.0
948/0090x0065	90 x 65	101.6 x 76.3	948/0300x0200	*300 x 200	323.8 x 219.1	948/0600x0550	600 x 550	609.6 x 558.8
948/0090x0080	90 x 80	101.6 x 89.1	948/0300x0250	*300 x 250	323.8 x 273.0			
948/0100x0040	100 x 40	114.3 x 48.6	948/0350x0150	350 x 150	355.6 x 165.2			

DIMENSIONAL TOLERANCES AND PERMISSIBLE VALUES



ITEM	TYPES OF PIPE FITTINGS	NOMINAL DIAMETER mm					
		15-65	80-100	125-200	250-450	500-600	650-750
		TOLERANCE mm					
Outside diameter at end	All fittings	± 2.0	± 2.5	± 3.5	+5.0 - 4.5	+6.4 - 4.8	
Inside diameter at end face		± 2.0	± 2.5	± 3.5	± 4.5	± 4.8	
Thickness		*not specified -15%					
Bevel angle		See Fig					
Height of root face		See Fig					
Dimensions from centerline to end face	45 ° Elbow 90 ° Elbow	± 2.0		± 3.2			
Overall length	Reducers	± 2.0		± 3.2		± 4.8	
Dimension from centerline to end face	Tees	± 2.0		± 3.2		± 4.8	
Dimensions from back to end face	Caps	± 3.2		± 6.4		-	





**ROBUST
CONSTRUCTION**

**PIN HOLE
FREE**

**FM
APPROVED**



MINGGALV.COM

GROOVED COUPLING



CODE	SIZE mm	PIPE OD mm	LENGTH mm	WIDTH mm	DIAMETER mm	BOLT mm
990/0025	25	33.7	97	45	55	M10x40
990/0032	32	42.4	107.5	45	63.5	M10x45
990/0040	40	48.3	114	45	69	M10x45
990/0050	50	60.3	124	46	83.6	M10x55
990/0065	65	76.1	139	46	98	M10x55
990/0080	80	88.9	156	46	114	M10x55
990/0100	100	114.3	189	50	142	M12x65
990/0125	125	139.7	222	50	170	M12x65
990/0150	150	165.1	244	50	196	M12x65
990/0200	200	219.1	316	60	256	M16x80
990/0250	250	267.4	400	64	313	M20x90
990/0300	300	318.5	464	64	368	M22x110

GROOVED ELBOW 90°



CODE	SIZE mm	PIPE OD mm	LENGTH mm
991/0025	25	33.7	57
991/0032	32	42.4	70
991/0040	40	48.3	70
991/0050	50	60.3	83
991/0065	65	76.1	95
991/0080	80	88.9	108
991/0100	100	114.3	127
991/0125	125	139.7	140
991/0150	150	165.1	165
991/0200	200	219.1	197

GROOVED TEE



CODE	SIZE mm	PIPE OD mm	LENGTH mm
992/0025	25	33.7	57
992/0032	32	42.4	70
992/0040	40	48.3	70
992/0050	50	60.3	84
992/0065	65	76.1	95
992/0080	80	88.9	108
992/0100	100	114.3	127
992/0125	125	139.7	140
992/0150	150	165.1	165
992/0200	200	219.1	197

GROOVED COUPLING GALV



CODE	SIZE mm	SIZE mm
993/0050	2"	50
993/0065	2½"	65
993/0080	3"	80
993/0100	4"	100
993/0125	6"	125
993/0150	8"	150

SPECIFICATIONS

Material	Elongation Break (%)				Tensile Strength (Mpa)				Yield Strength (Mpa)			
	18.1				512				442			
Component Elements (%)	C	Ce	Cr	Cu	Fe	Mg	Mn	Mo	Ni	P	Si	S
	3.800	0.006	0.040	0.150	94.050	0.030	0.160	0.030	0.050	0.020	2.750	0.002
Bolt Property	SWRCH35K											
	Elongation after Break (%)				Tensile Strength (N/mm2)				Yield Strength (N/mm2)			
	20				850				694			



APPROVED



APPROVED

Factory complies with:
ISO 9001:2008
ISO 14001:2004

