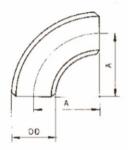
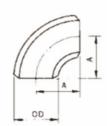
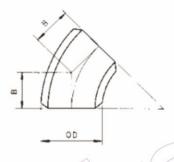
Long and Short Radius Elbows







ASME B16. 9 B16. 28

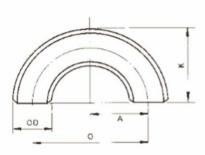
Nomina	Outside		Center	-to-End	*Standard (mm)	
Pipe	Diameter	Long Radi		Short Radius Elbow		
Size	at Bevel	90 Deg.	45 Deg.	90 Deg.	45 Deg. *	
(NPS)	OD OD	A A	B B	A A	45 Deg. #	
				A	В	
1/2	21.3	38. 1	15. 7	7 /	_	
3/4	26. 7	38. 1	19. 0	7	_	
1	33. 4	38. 1	22. 4	25.4	_	
1-1/4	42. 2	47. 8	25. 4	31./8	_	
1-1/2	48. 3	57. 2	28. 4	38.1	_	
2	60. 3	76. 2	35.0	50.8	_	
2-1/2	73. 0	95. 2	44./4	63.5	_	
3	88. 9	114.3	50.8	76.2	31.6	
3-1/2	101.6	113.4	57. 2	88.9	36.8	
4	114.3	152. 4	63. 5	101.6	42.1	
5	141,3	190. 5	79. 2	127.0	52.6	
6	168.3	228. 6	95. 2	152.4	63.4	
8	219.1	304. 8	127. 0	203. 2	84. 2	
10	273.1	381. 0	158. 8	254.0	105. 2	
12	3 23. 9	457. 2	190. 5	304.8	126. 3	
14	355.6	533. 4	222. 2	355.6	147. 3	
16	406. 4	609.6	254. 0	406.4	168.3	
18	457. 2	685. 8	285. 8	457.2	189. 4	
20	508. 0	762. 0	317. 5	508.0	210.4	
22	558. 8	838. 2	342. 9	558.8	231.5	
24	609. 6	914. 4	381.0	609.6	252. 5	
26	660. 4	990. 6	406. 4	660. 4*	273. 5	
28	711. 2	1066.8	438. 2	711. 2*	294. 6	
30	762. 0	1143. 0	469. 9	762. 0*	315.6	
32	812. 8	1219. 2	501. 6	812.8*	378. 1	
34	863. 6	1295. 4	533. 4	863.6*	357.7	
36	914. 4	1371. 6	565. 2	914. 4*	378.8	
38	965. 2	1447. 8	599. 9	-	-	
40	1016. 0	1524. 0	632. 0	1016.0*	420.8	
42	1066. 8	1600. 2	660. 4	1066.8*	441.9	
44	1117. 6	1676. 4	695. 4	1117.6*	462.9	
46	1168. 4	1752. 6	726. 9	-	_	
48	1219, 2	1828, 8	759. 0	1219.2*	505.0	
52*	1320. 8	_	_	1320.8	547. 1	
54*	1371. 6	2057. 4	852. 2	1371.6	568. 1	
56*	1422. 4	2133. 6	883. 8	1422. 4	589. 2	
60*	1524. 0	2286. 0	946. 9	1524. 0	631.3	
66*	1676. 4	2514. 6	1041.6	-	-	
72*	1828. 8	2743. 2	1262.5	-	-	
80∗	2032. 0	-	-	2032.0		

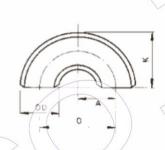


نلند، گذار بشرونگاهی تلفن بداند گذار بشرونگاهی تلفن بداند بر شرکزی : ۲۰۲۱/۸۸۵۹۴۱۳۲۶ (۲۲) تلفن بداند بر شرکزی : ۲۰۱۱/۳۹۱۸۸۸۸ (۲۲) در ۲۰۱۱/۳۹۸۸۸۸۸ (۲۲) در به سایت : Info:Binco.ir ایسمیل : Info:Binco.ir

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Long and Short Radius Elbows





ASME B16.9 ASME B16.28

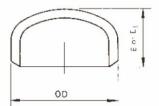
(mm)

Nomina	Outside	Long	Radius	Short	Radius
Pipe	Diameter	Center-to-	Back-to-	Center-to-	Back-to-
Size	at Beyel	Center	Face	Center	1.0000000000000000000000000000000000000
(NPS)	OD	0 \	K	0	K
1/2	21. 3	76. 2	47.8	-	-
3/4	26, 7	76.2	50.8	-	-
1	33. 4	76.2	55.6	50.8	41. 1
1-1/4	42. 2	95. 2	69.8	63. 5	52. 3
1-1/2	48.3	114.3	82.6	76. 2	62.0
) /2	60. 3	152. 4	106. 4	101. 6	81.0
2-1/2	73. 0	190.5	131.8	127. 0	100. 1
3	88. 9	228. 6	158. 8	152. 4	120. 7
3-1/2	101.6	266.7	184. 2	177. 8	139. 7
4//	114.3	304.8	209. 6	203. 2	158. 8
5	141.3	381.0	261.9	254. 0	196. 9
6	168.3	457. 2	312.7	304. 8	236. 5
8	219. 1	609.6	414. 3	406. 4	312. 7
10	273.1	762.0	517. 6	508. 0	390. 7



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Caps



MSS SP-75

St.				
Nominal Pipe Size (NPS)	Outside Diameter at Bevel OD	Length(2) E	Limiting Wall Thickness for Length E	Length(3)
1/2	21.3	25.4	4.5	25.4
3/4	26.7	25.4	3.8	25.4
1	33.4	38.1	4.5	38.1
1-1/4	42.2	38.1	4.8	38.1
1-1/2	48.3	38.1	5.0	38.1
2	60.3	38.1	5.5	44.4
2-1/2	73.0	38.1	7.1	50.8
3	88.9	50.8	7.6	63.5
3-1/2	101.6	63.5	8.1	76.2
4	114,3	63.5	8.6	76.2
5) /	141.3	76.2	9.6	88.9
6	168.3	88.9	10.9	101.6
8	219.1	101.6	12.7	127.0
10	27/3.1	127.0	12.7	152.4
12	323.9	152.4	12.7	177.8
14	355.6	165.1	12.7	190.5
16	406.4	177.8	12.7	203.2
18	457.2	203.2	12.7	228.6
20	508.0	228.6	12.7	254.0
22	558.8	254.0	12.7	254.0
	200000000000000000000000000000000000000		5000 000	

	ASME B16.9	(mm		
Nominal	Outside			
Pipe	Diameter	Length		
Size	at Bevel	E		
(NPS)	OD			
26	660.4	266.7		
28	711.2	266.7		
30	762.0	266.7		
32	812.8	266.7		
34	863.6	266.7		
36	914.4	266.7		
38	965.2	304.8		
40	1016.0	304.8		
42	1066.8	304.8		
44	1117.6	342.9		
46	1168.4	342.9		
48	1219.2	342.9		

• Wall thickness for Caps up to and including 36" conform to ASME B36.10 Specifications; Caps 38" and larger conform to XS Specifications for wall thicknesses of 36". These are Benkan Standards as no Internationally Recognized Standards have been set for such large size wall thickness.

304.8

- (1) The shape of these caps shall be ellipsoidal and shall conform to the shape requirements as given in the ASME Boiler and Pressure Vessel Code.
- (2) Length E applies for thickness not exceeding that given in column "Limiting wall Thickness for Length E".

12.7

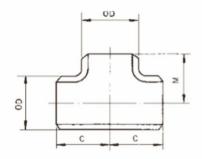
- (3) Length E₁ applies for thickness greater than that given in column "Limiting wall Thickness" for NPS 24 and smaller. For NPS 26 and larger, Length E₁ shall be by agreement between manufacturer and purchaser,
- (4) 48" and larger can be manufactured. Please contact us for size capability.

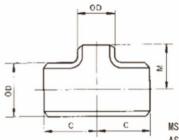
266.7

609.6

نفت، گنار، پتروشیم و نیروگاهی تلفن دفتر مرکزی : ۲۱۱۸۸۵۴۱۳۲۰) تلفن فروشگاه شیر آلات : ۳۹۹۱۸۸۰۸ (۲۱) وب سایت : www.bfmco.ir ایمیال : Info@bfmco.ir

Straight and Reducing Tees





MSS SP-75 ASME B16.9

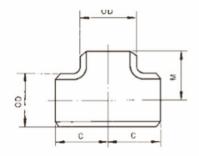
*Standard (mm)

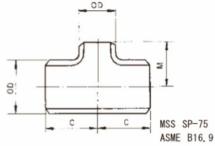
								*Standa	rd (mm)
Nominal Pipe Size		Diameter Beve l	Center	-to-End	Nominal Pipe Size	Outside at l	Diameter Beve l	Center	-to-End
(NPS)	Run	Out let	Run C	Outlet(1) (2	(NPS)	Run	Outlet	Run	Outlet(1)(2)
1/2 x 1/2	21. 3	21.3	25. 4	25. 4	5 x 5	141.3	141.3	124. 0	124.0
3/8		17.3		25. 4	4		114.3		117.3
1/4		13.7		25. 4	3-1/2		101.6		114.3
3/4 x 3/4	26. 7	26.7	28. 4	28. 4	3		88. 9		111.3
1/2		21.3		28. 4	2-1/2		73.0		108.0
3/8		17.3		28. 4	2 /		60.3		104.6
1 x 1	33. 4	33.4	38. 1	38. 1	1-1/2*		48. 3		
3/4		26.7		38. 1	6 x 6	168.3	168/3	142. 7	142.7
1/2		21.3		38. 1	5		141.3		136.7
1-1/4 x 1-1/4	42. 2	42.2	47.8	47. 8	4		114. 3		130.0
1		33.4		47. 8	3-1/2		101.6		127.0
3/4		26.7		47. 8	/3	/	88.9		124.0
1/2		21.3		47. 8	2-1/2		73.0		120.6
1-1/2 x 1-1/2	48. 3	48.3	57.2	57.2	2*		60.3		
1-1/4		42.2	7 (57. 2	8 x 8	219.1	219. 1	177. 8	177.8
1		33.4		57. 2	6		168.3		168.1
3/4		26.7		57.2	5		141.3		162.1
1/2		21.3		57. 2	4		114.3		155.4
2 x 2	60.3	60.3	63. 5	63. 5	3-1/2		101.6		152.4
1-1/2		48.3		60. 5	3*		88. 9		
1-1/4		42.2		57. 2	10 x 10	273.1	273. 1	215. 9	215.9
) / 1		33.4		50.8	8		219.1		203.2
3/4		26.7		44. 4	6		168. 3		193.5
1/2*		21.3			5		141.3		190.5
2-1/2 x 2-1/2	73. 0	73.0	76. 2	76. 2	4		114.3		184. 2
2	/	60.3		69. 8	12 x 12	323.9	323. 9	254. 0	254.0
1-1/2		48.3		66. 5	10		273. 1		241.3
1-1/4		42.2		63. 5	8		219. 1		228.6
1		33.4		57. 2	6		168. 3		218.9
3 x 3	88. 9	88.9	85. 8	85. 8	5		141.3		215.9
2-1/2		73.0		82. 6	14 x 14	355.6	355. 6	279. 4	279.4
2		60.3		76. 2	12		323. 9		269.7
1-1/2		48.3		73. 2	10		273. 1		257.0
1-1/4		42.2		69. 8	8		219. 1		247. 6
1*		33.4	45.	45.5	6	***	168. 3		238.3
3-1/2 x 3-1/2	101.6	101.6	95. 2	95. 2	16 x 16	406.4	406. 4	304. 8	304.8
3		88.9		91. 9	14		355. 6		304.8
2-1/2		73.0		88. 9	12		323. 9		295. 1
2		60.3		82. 6	10		273. 1		282.4
1-1/2		48.3	10: -	79. 2	8		219. 1		373.0
4 x 4	114. 3	114.3	104. 6	104. 6	6	457.0	168. 3	0.42	263.7
3-1/2		101.6		101. 6	18 x 18	457.2	457. 2	342. 9	342.9
3		88.9		98. 6	16		406. 4		330. 2
2-1/2		73.0		95. 2	14		355. 6		330. 2
2		60.3		88. 9	12		323. 9		320.5
1-1/2		48.3		85. 8	10		273. 1	I	307.8
1-1/4*		42.2			8		219. 1	7 (1)	298.4
1*		33.5					43.00	المنابئ لاستسال	

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Straight and Reducing Tees





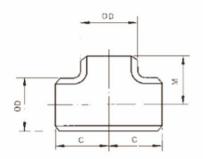
*Standard (mm)

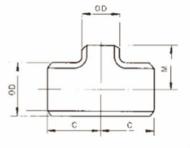
NW-S Run Outlet C M NW-S Run Outlet C M									*Standa	ra (mm)
NPS Run Outlet C NPS Run Outlet C Outle		at E	Bevel	Center		D: C:	at I	Bevel	Center	-to-End
18					Outlet ^{(1) (2}	U				Out let(1) (2)
18	20 x 20	508.0	508. 0	381.0	381.0	30 x 12	762.0	323. 9	558, 8	472, 6
14	18		457. 2		368.3	10		273. 1		460. 2
12	16		406. 4		355.6	32 x 32	812.8	812, 8	596.9	596. 9
10	14		355. 6		355.6	30		762. 0		584. 2
10	12		323. 9		345. 9	28		711.2		571.5
22 x 22 558.8 558.8 508.0 419.1 419.1 22 508.0 508.0 508.0 18 457.2 339.7 18 457.2 520 16 406.4 355.6 350.0 12 323.9 371.3 381.0 14 355.6 32 711.2 22 558.8	10		273. 1		333. 2	26				571.5
20	8		219. 1		323.8	24		609. 6		558. 8
18	22 x 22	558.8	558. 8	419.1	419.1	22		558, 8		546. 1
18	20		508.0		406.4	20		508. 0		533. 4
14	18		457. 2		393. 7	18		457. 2		520. 7
12	16		406. 4		381.0	16		406. 4		508. 0
12	14		355. 6		381.0	14	/	355. 6		508. 0
24 x 24 609.6 609.6 431.8 431.8 28 711.2 596.0 558.8 711.2 596.0 711.2 596.0 596.0 711.2 596.0 496.3 495.3 396.7 18 496.4 496.4 495.3 396.7 18 496.4 496.4 495.3 396.7 18 496.4 496.4 495.3 396.7 18 496.4 496.4 495.3 396.7 18 496.4 496.4 496.9 32 812.4 496.4	12		323. 9			34 x 34	863. 6	863. 6	635.0	635.0
22	10		273. 1		358.6	32		812. 8		622. 3
22	24 x 24	609.6	609.6	431.8	431.8	30		762. 0		609.6
18	The same and the s		558.8		431.8	28		711. 2		596. 9
18	20		508.0		431.8	26		660. 4		596. 9
14	18				419.1	24		609. 6		584. 2
12	16		406.4		406.4	22		558. 8		571.5
12	14		355. 6		406.4	20		508. 0		558. 8
10	12					18				546. 1
26 26 660. 4 660. 4 495. 3 495. 3 36 x 36 914. 4 914. 4 673. 1 673 673 673 673. 1 673 673. 1 67	10		1 1		384.0	16		406, 4		533. 4
24	26 x 26	660. 4		495.3	495. 3	36 x 36	914. 4		673. 1	673. 1
20	24		609. 6		482. 6			863. 6		660. 4
18 457. 2 444. 5 28 711. 2 622 16 406. 4 431. 8 26 660. 4 622 14 355. 6 431. 8 24 609. 6 609. 6 12 323. 9 422. 1 22 558. 8 596 28 x 28 711. 2 520. 7 520. 7 20 508. 0 584 26 660. 4 520. 7 18 457. 2 571 24 609. 6 508. 0 16 406. 4 558 22 558. 8 495. 3 38 x 38 965. 2 965. 2 711. 2 711 20 508. 0 482. 6 36 914. 4 711	22		558. 8		469.9	32		812. 8		647. 7
16 406, 4 431, 8 26 660, 4 622 14 355, 6 431, 8 24 609, 6 609 12 323, 9 422, 1 22 558, 8 596 28 x 28 711, 2 711, 2 520, 7 20 508, 0 584 26 660, 4 520, 7 18 457, 2 571 24 609, 6 508, 0 16 406, 4 558 22 558, 8 495, 3 38 x 38 965, 2 965, 2 711, 2 711 20 508, 0 482, 6 36 914, 4 711 71	20		508. 0		457. 2	30		762. 0		635.0
14 355.6 431.8 24 609.6 609 12 323.9 422.1 22 558.8 596 28 x 28 711.2 711.2 520.7 520.7 20 508.0 584 26 660.4 520.7 18 457.2 571 24 609.6 508.0 16 406.4 558 22 558.8 495.3 38 x 38 965.2 965.2 711.2 711 20 508.0 482.6 36 914.4 711	18		457. 2		444.5	28		711. 2		622. 3
12 323.9 422.1 22 558.8 596 28 x 28 711.2 520.7 520.7 20 508.0 584 26 660.4 520.7 18 457.2 571 24 609.6 508.0 16 406.4 558 22 558.8 495.3 38 x 38 965.2 965.2 711.2 711 20 508.0 482.6 36 914.4 711 <td< td=""><td>16</td><td></td><td>406. 4</td><td></td><td>431.8</td><td>26</td><td></td><td>660. 4</td><td></td><td>622. 3</td></td<>	16		406. 4		431.8	26		660. 4		622. 3
28 x 28 711. 2 711. 2 520. 7 520. 7 520. 7 584 588. 0 584 584 584 584 584 584 584 584 588. 0 <td>14</td> <td></td> <td>355. 6</td> <td></td> <td>431.8</td> <td>24</td> <td></td> <td>609. 6</td> <td></td> <td>609. 6</td>	14		355. 6		431.8	24		609. 6		609. 6
26 660. 4 520. 7 18 457. 2 571 24 609. 6 508. 0 16 406. 4 558 22 558. 8 495. 3 38 x 38 965. 2 965. 2 711. 2 711 20 508. 0 482. 6 36 914. 4 711 711 914. 4 711 <	12		323. 9		422. 1	22		558. 8		596. 9
24 609. 6 508. 0 16 406. 4 558. 22 558. 8 495. 3 38 x 38 965. 2 965. 2 711. 2 711 20 508. 0 482. 6 36 914. 4 711 18 457. 2 469. 9 34 863. 6 698 16 406. 4 457. 2 32 812. 8 685 14 355. 6 457. 2 30 762. 0 673 12 323. 9 447. 5 28 711. 2 647 28 711. 2 546. 1 24 609. 6 635 26 660. 4 546. 1 22 558. 8 622 24 609. 6 533. 4 20 508. 0 609 22 558. 8 520. 7 18 457. 2 20 508. 0 508. 0 495. 3 495. 3	28 x 28	711.2	711. 2	520.7	520.7	20		508. 0		584. 2
22 558.8 495.3 38 x 38 965.2 965.2 711.2 711 20 508.0 482.6 36 914.4 711 711 18 457.2 469.9 34 863.6 698 16 406.4 457.2 32 812.8 685 14 355.6 457.2 30 762.0 673 12 323.9 447.5 28 711.2 647 28 711.2 558.8 26 660.4 647 28 711.2 546.1 24 609.6 635 24 609.6 533.4 20 508.0 609 22 558.8 520.7 18 457.2 20 508.0 508.0 495.3 495.3	26		660. 4		520. 7	18		457. 2		571.5
20 508.0 482.6 36 914.4 711 18 457.2 469.9 34 863.6 698 16 406.4 457.2 32 812.8 685 14 355.6 457.2 30 762.0 673 12 323.9 447.5 28 711.2 647 28 711.2 546.1 24 609.6 635 26 660.4 546.1 22 558.8 622 24 609.6 533.4 20 508.0 609 22 558.8 520.7 18 457.2 20 508.0 508.0 495.3 495.3	24		609.6		508.0	16		406. 4		558. 8
18 457. 2 469. 9 34 863. 6 698 16 406. 4 457. 2 32 812. 8 685 14 355. 6 457. 2 30 762. 0 673 12 323. 9 447. 5 28 711. 2 647 30 x 30 762. 0 762. 0 558. 8 26 660. 4 647 28 711. 2 546. 1 24 609. 6 635 26 660. 4 546. 1 22 558. 8 622 24 609. 6 533. 4 20 508. 0 609 22 558. 8 520. 7 18 20 508. 0 508. 0 18 457. 2 495. 3	22		558. 8		495.3	38 x 38	965. 2	965. 2	711.2	711. 2
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تَلَقَن دَفَنَا لِ مِركَ زَى : ٢٠ / ٨٨٥٩٤١ / ١٤٠ (٠٢١) 482. 6							(+Y1) AA 09 41	ر مرکزی : ۴-۲۳	تلفن دفت	

تَلَفَنَ فَرُوشُكُاهُ شَيْرِ آلات : ٣٩١٨٨٠٨ ٣٣٩ (٢١٠)

وب سايت : وب سايت : Info@bfmco.ir المحيال : Info.bfmco@gmail.com

Straight and Reducing Tees





MSS SP-75 ASME B16.9

*Standard (mm)

					0.5			*Standar	d (mm)
Nominal Pipe Size		Diameter Beve l	Center	-to-End	Nominal Pipe Size		Diameter Beve l	Center	-to-End
(NPS)	Run	Out let	Run C	Outlet ⁽¹⁾ (2	(NPS)	Run		Run	Out et(1) (2)
40 x 40	1016.0	1016.0	749. 3	749.3	46 x 26	1168.4	660. 4	850.9	736.6
38		965. 2		749.3	24		609.6		723.9
36		914.4		736.6	22		558. 8		723.9
34		863. 6		723. 9	20*		508. 0		723. 9
32		812.8		711.2	48 x 48	1219.2	1219. 2	889.0	838. 2
30		762. 0		698.5	46		1168.4		838. 2
28		711. 2		673.1	44		1117.6		838. 2
26		660. 4		673.1	42		1066.8		812.8
24		609.6		660.4	40		1016.0		812.8
22		558. 8		647.7/	38		965. 2		812.8
20		508. 0		635.0	36		914. 4		787. 4
18		457. 2		622. 3	34		863. 6		787. 4
42 x 42	1066.8	1066. 8	762.0	711.2	32		812. 8		787. 4
40		1016.0		711. 2	30		762. 0		762.0
38		965. 2		711.2	28		711. 2		762. 0
36		914.4	7 (711.2	26		660. 4		762. 0
34		863.6		711.2	24		609. 6		736. 6
32		812.8		711.2	22		558. 8		736. 6
30		762. 0		711.2	52 x 52*	1320. 8	1320. 8	965. 2	914. 4
28		711.2		698.5	48*	1020.0	1219. 2	000.2	863. 6
26		660.4		698.5	44*		1117. 6		812. 8
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) 22		558. 8		660.4	54 x 54*	1371.6	1371. 6	1003.3	952.5
20	/ / ,	508. 0		660. 4	52*	1071.0	1320. 8	1000.0	914. 4
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16		406. 4		635.0	44*		1117. 6		863. 6
44 x 44	1117.6	1117. 6	812. 8	762.0	40*		1016. 0		812. 8
42	1117.0	1066. 8	012.0	762.0	28*		711. 2		787. 4
40		1016. 0		749.3	20*		508. 0		787. 4
38		965. 2		736.6	56 x 56*	1422. 4	1422. 4	1041.4	965. 2
36		914. 4		723. 9	52*	1422.4	1320. 8	1041.4	914. 4
34		863. 6		723. 9	48*		1219. 2		863. 6
32		812. 8		711. 2	44*		1117. 6		812. 8
30		762. 0		711.2	40*		1016. 0		812.8
28		711. 2		698.5	28*		711. 2		812.8
26		660. 4		698.5	20*		508. 0		812.8
24		609. 6		698.5	60 x 60*	1524. 0	1524. 0	1117.6	1016. 0
22		558. 8		685.8	56*	1324.0	1422. 4	1117.0	965. 2
20		508. 0		685.8	52*		1320. 8		914. 4
46 x 46	1168.4	1168. 4	850. 9	800.1	48*		1219. 2		863. 6
40 X 40 44	1100, 4	1117. 6	030. 9	800.1	40*		1016. 0		863.6
42		1066. 8		787. 4	28*		711. 2		863. 6
40		1016. 0		774.7	20*		508. 0		863.6
38		965. 2		762.0	66 x 66*	1676. 4	1676. 4	1219.2	1066.8
36		914. 4		762.0	00 X 00*	1070.4	1070.4	1219.2	1000.0
		100000000000000000000000000000000000000					L		
34		863. 6		749.3					
32		812. 8		749.3		A1 8	الاسم نفث، گار، پشروشیمی و		
30		762. 0		736.6		الم ۱۹۸۸۸۹۴۱ م	عده در،پدروسیسی در مرکــزی : ۲۲-۴	تلفن رفزا	
28		711. 2		736.6		(-11),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u>ر مرسری . ۰-۰</u>	<u></u>	

تلفن فروشگاه شیرآلات : ۳۳۹۱۸۸۰۸ (۲۲۱)

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