



# ALVAND MAKESH

IRRIGATION

Manufacturer of sprinklers in different size and Irrigation equipment pressurized systems

The first manufacturer of Big Gun sprinklers in Iran



# BIG GUN

Komeet  
Baran Alvand  
Saroo  
Alvand Makeesh

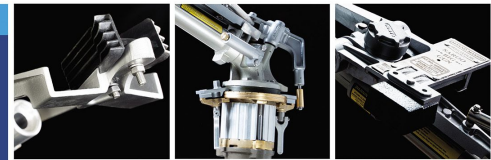


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Saroo  
BIG GUN  
SR 100



SR100 Big Gun (Taper Bore Nozzle)

Nozzle Diameter mm	14		16		18		20		22		24		26	
	L/S	ROD (m)	L/S	ROD (m)	L/S	ROD (m)	L/S	ROD (m)	L/S	ROD (m)	L/S	ROD (m)	L/S	ROD (m)
3	3.7	31.7	4.8	33.9	6.1	36.0	7.5	38.1	9.1	40.3	10.8	42.4	12.6	44.6
4	4.3	34.3	5.6	36.7	7.0	39.1	8.7	41.5	10.5	43.9	12.4	46.4	14.6	48.8
5	4.7	36.7	6.2	39.3	7.8	42.0	9.7	44.6	11.7	47.3	13.9	49.9	16.3	52.6
6	5.2	39.1	6.8	41.8	8.6	44.5	10.6	47.2	12.8	49.9	15.3	52.6	17.9	55.3
7	5.6	41.2	7.3	44.0	9.3	46.7	11.4	49.5	13.8	52.2	16.5	55.0	19.3	57.7



# BIG

# GUN

Saroo  
sprinkler  
model Nelson  
BIG GUN

Dimensions - 46 X 66 cm  
Connection - 2 inch  
Angle - 24°  
Materials - Aluminum, steel, brass, cast iron and polymer

Pressure - 3 - 7 bar  
Nozzle - 14 - 26 mm  
Flow - 3/7 - 19/3 l/s  
Throw - 31/7 - 57/7 m



# Accessories

Qty/Box	Size(Inch)	Code	Product type
100	2	BAM001 BOM	Pom Nipple
100	1 1/2	BAM100	Clamp Saddle
45	63x11/2	BAM102	Clamp Saddle
free	1	AM4001	Pvc-u riser
free	2	AM4002	Riser
free	1 1/2	AM4001/5	Pvc-u riser
free	1	AM5001	Riser
free	2	AM5002	Riser
free	1 1/2	AM5001/5	Riser
free	1	AM7001	metal clamp and hook
free	2	AM7002	metal clamp and hook
free	1 1/2	AM7001/5	metal clamp and hook
free	1	AM7001	Al clamp and hook
free	2	AM7002	Al clamp and hook
free	1 1/2	AM7001/5	Al clamp and hook
free	1	AM7001	clamp with lever hook
free	2	AM7002	clamp with lever hook
free	1 1/2	AM7001/5	clamp with lever hook
free	1	AM1003A1	Tripod
free	2	AM1003A2	Tripod
free	1 1/2	AM1003A1/5	Tripod

## Short Stem

PE Pipe Conversion Fast Joint Male Thread Size : 63mm X 2inch  
PE Pipe Conversion Fast Joint-union Pressure : 10bar



# Gate valve

## Extended Stem

PE Pipe Conversion Fast Joint Male Thread size : 63mm X 2inch  
PE Pipe Conversion Fast Joint-union pressure : 10bar

## Polymer quick coupling valve

1inch 1 1/2 inch 2 inch



1inch  
Polymer quick coupling valve

Head Lossbar	Discharge(m <sup>3</sup> /s)
45bar	13bar
0.001	0.020
0.002	0.030
0.003	0.040
0.004	0.050
0.005	0.060
0.006	0.070
0.007	0.080
0.008	0.090
0.009	0.100
0.010	0.110
0.015	0.130
0.020	0.150
0.030	0.170
0.040	0.190
0.050	0.210

Weight : 210 gr



1 1/2 inch  
Polymer quick coupling valve

Head Lossbar	Discharge(m <sup>3</sup> /s)
0.011	0.5
0.012	1.5
0.013	1.8
0.014	2.1
0.015	2.4
0.016	2.7
0.017	3.0
0.018	3.3
0.019	3.6
0.020	3.9

Weight : 450 gr



2 inch  
Polymer quick coupling valve

Head Lossbar	Discharge(m <sup>3</sup> /s)
0.005	0.5
0.011	1.5
0.017	2.5
0.023	3.5
0.030	4.5
0.037	5.5
0.044	6.5
0.051	7.5
0.058	8.5
0.065	9.5

Weight : 684 gr

# Quick Connect Polymer Valve



# Perrot

## ZM22

Saroo sprinkler model Perrot ZM22 full circle

Pressure • 3 - 7 bar  
Nozzle • 10 - 16 mm  
Flow • 1/81 - 6/68 l/s  
Throw • 232 - 345 m  
Dimensions • 24/5 X 26 cm  
Connection • Male thread 1 1/2 inch  
Angle • 22°  
Materials • Aluminum and polymer  
Weight • 960 gr

Pcs	Box dimensions	product code
20	Length 31, width 32, height 22	SZM22M

## ZK30

Saroo sprinkler model Perrot ZK30 part circle 3 Nozzle

Pressure • 2/5 - 6 bar  
Nozzle • 7 - 11 mm  
Flow • 0/75 - 2/94 l/s  
Throw • 19 - 26 m  
Dimensions • 17 X 18/5 cm  
Connection • Male thread 1 inch  
Angle • 30°  
Materials • Steel, brass and polymer  
Weight • 850 gr

Pcs	Box dimensions	product code
20	Length 31, width 29, height 22	SZK30M

# ALFA

Saroo sprinkler model ALFA part circle

Saroo sprinkler model ALFA full circle

2/5 - 6 bar Pressure  
7 - 11 mm Nozzle  
0/76 - 2/94 l/s Flow  
19 - 26 m Throw  
16/5 X 20 cm Dimensions  
Male thread 1 inch Connection  
24° Angle  
Aluminum,Titanium,brass and polymer Materials  
520 gr Weight

2/5 - 6 bar Pressure  
7 - 11 mm Nozzle  
0/76 - 2/94 l/s Flow  
19 - 26 m Throw  
18/5 X 20 cm Dimensions  
Male thread 1 inch Connection  
24° Angle  
Aluminum,Titanium,brass and polymer Materials  
450 gr Weight

Aluminum,Titanium,brass and polymer Materials

Pcs	Box dimensions	product code
15	Length 31, width 32, height 22	SZK24TN

Pcs	Box dimensions	product code
20	Length 31, width 32, height 22	SZ424M

## Baran Alvand

Aluminium quick coupling valve  
Pressure • 2 - 6 bar  
Head loss • 0/05 - 2 m  
Flow • 0/5 - 4/5 l/s  
Connection • Female thread 2 inch  
Materials • Aluminum alloy  
Weight • 1000 gr

Pcs	Box dimensions	product code
24	Length 31, width 32, height 22	BAL2001N



Saroo sprinkler model Perrot ZK30 part circle 2 Nozzle

Pressure • 2/5 - 6 bar  
Nozzle • 7 - 11 mm  
Flow • 0/75 - 2/94 l/s  
Throw • 19 - 26 m  
Dimensions • 17 X 17 cm  
Connection • Male thread 1 inch  
Angle • 30°  
Materials • Steel, brass and polymer  
Weight • 810 gr

Pcs	Box dimensions	product code
20	Length 31, width 28, height 22	SZ27TN



Saroo sprinkler model Perrot ZK30 full circle 3 Nozzle

Pressure • 2/5 - 6 bar  
Nozzle • 7 - 11 mm  
Flow • 0/75 - 2/94 l/s  
Throw • 19 - 26 m  
Dimensions • 18/5 X 17 cm  
Connection • Male thread 1 inch  
Angle • 30°  
Materials • Steel, brass and polymer  
Weight • 690 gr

Pcs	Box dimensions	product code
24	Length 37, width 32, height 22	SZ31TM



Saroo sprinkler model Perrot ZK30 full circle 2 Nozzle

Pressure • 2/5 - 6 bar  
Nozzle • 7 - 11 mm  
Flow • 0/75 - 2/94 l/s  
Throw • 19 - 26 m  
Dimensions • 18/5 X 17 cm  
Connection • Male thread 1 inch  
Angle • 30°  
Materials • Steel, brass and polymer  
Weight • 700 gr

Pcs	Box dimensions	product code
24	Length 31, width 32, height 22	SZ24TM

## Saroo sprinkler

model TM25 full circle

Pressure • 2 - 6 bar  
Nozzle • 7 - 12 mm  
Flow • 1/14 - 4/36 l/s  
Throw • 18 - 32/5 m  
Dimensions • 38 X 27/5 cm  
Connection • Female thread 1 1/2 inch  
Angle • 30°  
Materials • Aluminum, brass and polymer  
Weight • 1350 gr

Pcs	Box dimensions	product code
15	Length 63, width 28, height 40	SZTM25



## Saroo sprinkler

model TM25 full circle

Pressure • 2 - 6 bar  
Nozzle • 7 - 12 mm  
Flow • 1/14 - 4/36 l/s  
Throw • 18 - 32/5 m  
Dimensions • 39 X 27 cm  
Connection • Female thread 1 1/2 inch  
Angle • 30°  
Materials • Aluminum, brass, polymer  
Weight • 1040 gr

Pcs	Box dimensions	product code
15	Length 63, width 28, height 40	SZTM25N



## Saroo sprinkler

model TM25 full circle

Pressure • 2 - 6 bar  
Nozzle • 7 - 12 mm  
Flow • 1/14 - 4/36 l/s  
Throw • 18 - 32/5 m  
Dimensions • 17 X 17 cm  
Connection • Female thread 1 1/2 inch  
Angle • 30°  
Materials • Aluminum,Steel, brass,polymer  
Weight • 1350 gr

Pcs	Box dimensions	product code
15	Length 63, width 28, height 40	SZTM25SS



## Saroo sprinkler

model Ambo full circle

Pressure • 2 - 5 bar  
Nozzle • 7 - 12 mm  
Flow • 1/31 - 4/42 l/s  
Throw • 16/5 - 27/5 m  
Dimensions • 25 X 37 cm  
Connection • Female thread 1 1/2 inch  
Angle • 30°  
Materials • Aluminum, brass, polymer  
Weight • 1230 gr

Pcs	Box dimensions	product code
15	Length 56, width 28, height 37	SZATM



## Saroo sprinkler

model Ambo full circle

Pressure • 2 - 5 bar  
Nozzle • 7 - 12 mm  
Flow • 1/31 - 4/42 l/s  
Throw • 16/5 - 27/5 m  
Dimensions • 24 X 38 cm  
Connection • Female thread 1 1/2 inch  
Angle • 30°  
Materials • Aluminum, brass, polymer  
Weight • 1330 gr

Pcs	Box dimensions	product code
15	Length 56, width 28, height 37	SZATM



## Saroo sprinkler

model TN25 part circle

Pressure • 2 - 6 bar  
Nozzle • 7 - 12 mm  
Flow • 1/14 - 4/36 l/s  
Throw • 18 - 32/5 m  
Dimensions • 43 X 25 cm  
Connection • Female thread 1 1/2 inch  
Angle • 30°  
Materials • Aluminum, brass and polymer  
Weight • 1590 gr

Pcs	Box dimensions	product code
15	Length 63, width 28, height 40	SZNTN



## Saroo sprinkler

model TN25 part circle

Pressure • 2 - 6 bar  
Nozzle • 7 - 12 mm  
Flow • 1/14 - 4/36 l/s  
Throw • 18 - 32/5 m  
Dimensions • 43 X 25 cm  
Connection • Female thread 1 1/2 inch  
Angle • 30°  
Materials • Aluminum, brass, polymer  
Weight • 1430 gr

Pcs	Box dimensions	product code
15	Length 63, width 28, height 40	SZNTN



## Saroo sprinkler

model TN25 part circle

Pressure • 2 - 6 bar  
Nozzle • 7 - 12 mm  
Flow • 1/14 - 4/36 l/s  
Throw • 18 - 32/5 m  
Dimensions • 43 X 25 cm  
Connection • Female thread 1 1/2 inch  
Angle • 30°  
Materials • Aluminum,Steel, brass,polymer  
Weight • 1590 gr

Pcs	Box dimensions	product code
15	Length 63, width 28, height 40	SZNTNSS



## Saroo sprinkler

model Ambo part circle

Pressure • 2 - 5 bar  
Nozzle • 7 - 12 mm  
Flow • 1/31 - 4/42 l/s  
Throw • 16/5 - 27/5 m  
Dimensions • 26 X 36 cm  
Connection • Female thread 1 1/2 inch  
Angle • 30°  
Materials • Aluminum, brass, polymer  
Weight • 1230 gr

Pcs	Box dimensions	product code
15	Length 56, width 28, height 37	SZNTM



## Saroo sprinkler

model Ambo part circle

Pressure • 2 - 5 bar  
Nozzle • 7 - 12 mm  
Flow • 1/31 - 4/42 l/s  
Throw • 16/5 - 27/5 m  
Dimensions • 25 X 36 cm  
Connection • Female thread 1 1/2 inch  
Angle • 30°  
Materials • Aluminum, brass, polymer  
Weight • 1520 gr

Pcs	Box dimensions	product code
15	Length 56, width 28, height 37	SZNTM

