

# 4951/61/81 Suspension Arm Systems Product Drawings Last Updated 6/26/2008

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Rose+Bopla's Suspension Arm Systems, 4951, 4961, and 4981, are modular systems for use in industrial environments. Square steel tubes can be combined with cast aluminum or steel system

### 4951/61/81 Suspension Arm

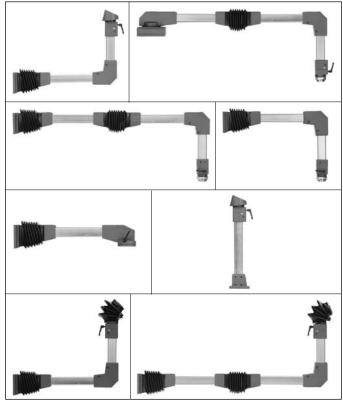
components to form various structures.

When combined with Rose+Bopla's system components they offer a wide variety of methods for setting up machine control units: as a vertical stand, as a wall-mounted system, or as a surface-mounted system. With their variable diameters these systems offer good wiring options and load-carrying capacity.

System components are offered in three sizes to meet varying weight load requirements. Component features include: stylish appearance, adjustable bearings to control swing forces, base unit bracket suitable for upside-down mounting, integral multiposition stop plates and easy tube installation with set screws.

These Suspension Arm Systems become self-contained tube systems due to the integrated seals in places where the system elements are joined, thus providing consistent IP 65 ingress protection up to the control unit. Cables are protected when installed through the unrestricted passageway created by burr-free inner contours and flush joints between tube and system elements. Swing can be adjusted to on-site requirements using adjustable fittings in the rotary and swivel elements.

### Sample Constructions





#### TECHNICAL DATA:

- Color: Dark gray, similar to RAL 7043. Tubing, zinc plated.
- Material: Square connecting tubing, 5mm thick, steel, to DIN 2395.
- Protection Classifications: IP 65. EN 60529 **NEMA 12**
- Assembly: Cut tubing to desired length. Slide components together. Tighten to required torque. Complete assembly instructions are provided with components.
- Torque Requirements: 30 Nm, 22 lbs. force.
- Maximum Weight:

	3.3 ft.	4.9 ft.	6.6 ft.	8.1 ft.	9.8 ft.	lbf.		
System 51	225	146	112			lbf.		
System 61	281	180	140	112		lbf.		
System 81	337	213	163	135	112	lbf.		
-				lbf.=Pounds Force				

Usable Space:

System 51–40 x 40mm, Inside Dimension of Tubing. System 61–50 x 50mm, Inside Dimension of Tubing. System 81–70 x 70mm, Inside Dimension of Tubing.

### 4951 / 4961 / 4981 Suspension Arm System Components

DESCRIPTION	PART NUMBER	POSITION	MATERIAL	WEIGHT	DRAWING PG	
WALL BRACKET	49517000	Pivots 180°	Cast	13.89 lbs.	17-240	
	49617000	Variable	Steel	20.06 lbs.		
	49817000	Stop Settings		28.66 lbs.		
						A Marine
BASE UNIT BRACKET	49516600	Pivots 310°	Cast	30.86 lbs.	17-241	
	49616600	Variable	Steel	40.12 lbs.		
	49816600	Stop Settings		51.37 lbs.		0
INTERMEDIATE JOINT	49516700	Pivots 180°	Cast	13.67 lbs.	17-241	
	49616700	Variable	Steel	19.62 lbs.		
	49816700	Stop Settings		28.00 lbs.		
	(05/0000	<u> </u>		0.00 //	17 0 10	
ELBOW	49518000	Fixed	Cast	9.92 lbs.	17-242	
	49618000		Steel	12.79 lbs.		
	49818000			17.64 lbs.		
FOOT	49517400	Fixed	Cast	6.61 lbs.	17-242	
	49617400		Steel	8.60 lbs.		
	49817400			13.23 lbs.		0 000-
SUPPORTING TUBE	10094156 45 (51)	10 Foot	Zinc	44.00 lbs.	-	
	10094157 45 (61)	Sections	Plated	47.00 lbs.		
	10094159 45 (81)		Steel	71.00 lbs.		

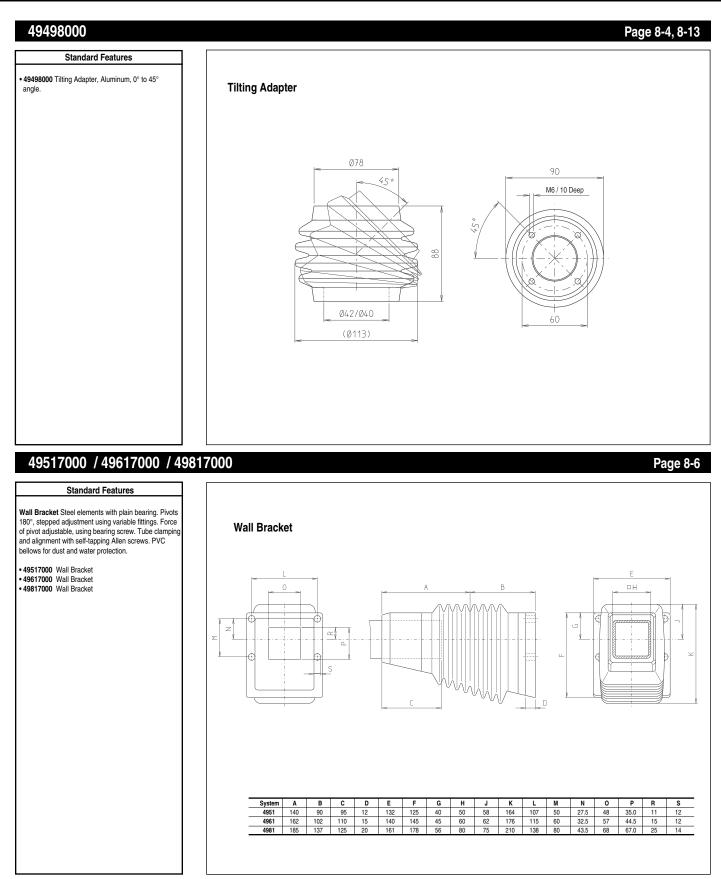
NOTE: Tubing can be cut to specific lengths. Maximum length for UPS shipment, 9 feet (108").



DESCRIPTION	PART NUMBER	POSITION	MATERIAL	WEIGHT	DRAWING PG	
FLANGE COUPLING	49517700	Pivots 325°	Cast	4.63 lbs.	17-243	
	49617700	Variable	Aluminum	6.17 lbs.		
	49817700	Stop Settings		10.80 lbs.		121
ELBOW COUPLING	49517500	Pivots 300°	Cast	4.85 lbs.	17-243	
	49617500		Aluminum	7.05 lbs.		
	49817500			12.57 lbs.		2
FLANGE ELBOW	49517800	Pivots 325°	Cast	4.85 lbs.	17-244	
COUPLING	49617800	Variable	Aluminum	7.94 lbs.	17-244	
	49817800	Stop Settings	Липпип	12.35 lbs.		
	40017000	Clop Cellings		12.00 100.		
ADAPTER ANGLE	49517900	Fixed	Cast	11.02 lbs.	17-244	
COUPLING	49617900	Variable	Steel	13.23 lbs.		
(for vertical wiring exit)	49817900	Stop Settings		14.33 lbs.		1
						The
						OA
ADJUSTABLE ANGLE	49516200	Pivots 300°	Cast	3.97 lbs.	17-245	
COUPLING	49616200	(adjustable	Aluminum	4.85 lbs.		
	49816200	angle)	Steel	6.17 lbs.		
<i>30° FIXED ANGLE</i>	49517600		Cast	1.76 lbs.	17-245	
ADAPTER FOR	49617600	Fixed	Aluminum	2.20 lbs.		
FLANGE COUPLING	49817600			3.75 lbs.		
SIGNAL LIGHT	49518010		Cast	0.66 lbs.	17-246	
ADAPTER	49618010	Fixed	Aluminum	0.88 lbs.		
	49818010			1.32 lbs.		
<b>NOTE</b> : Tubing can be cut to specific	langtha Mavimum langth f	or LIDE objection of the	st (109")			

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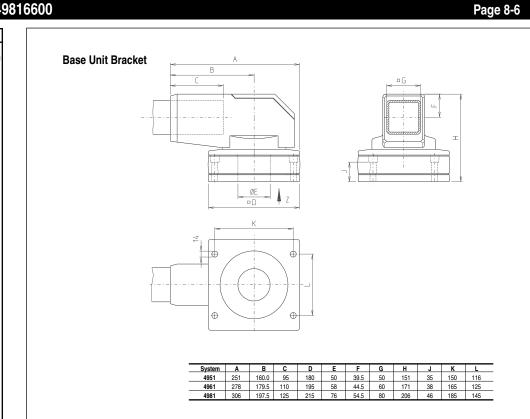
#### 49516600 / 49616600 / 49816600

Standard Features
Base Unit Bracket Cast steel joint for use on mounting

surfaces and for suspension mounting (ceiling mounting). Plain bearing with pivot of 310°, infinitely variable between 0° and 270°. Force of pivot adjustable by means of a set screw. Tube clamping and alignment with self- tapping Allen screws. Mounting lid to facilitate

wiring.

• 49516600 Base Unit Bracket • 49616600 Base Unit Bracket • 49816600 Base Unit Bracket



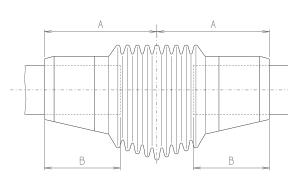
#### 49516700 / 49616700 / 49816700

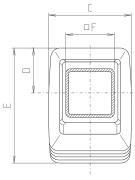
#### Standard Features

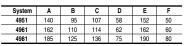
Intermediate Joint Cast steel pivoted joint with plain bearing. Pivots 180°, stepped adjustment using variable fittings. Force of pivot adjustable using bearing screw. Tube clamping and alignment with self-tapping Allen screws. PVC bellows for dust and water protection.

- 49516700 Intermediate Joint
- 49616700 Intermediate Joint
- 49816700 Intermediate Joint

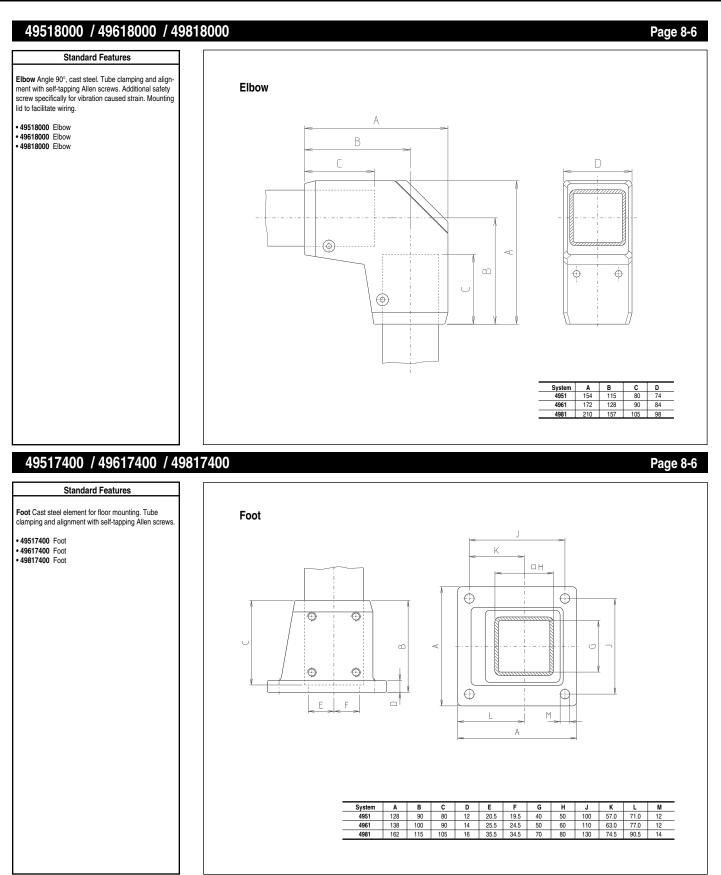
#### Intermediate Joint



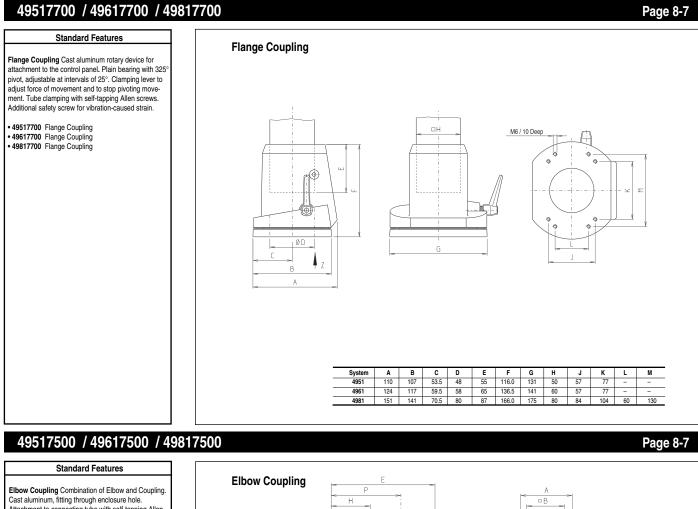




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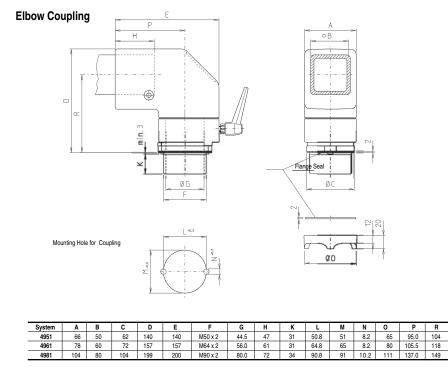




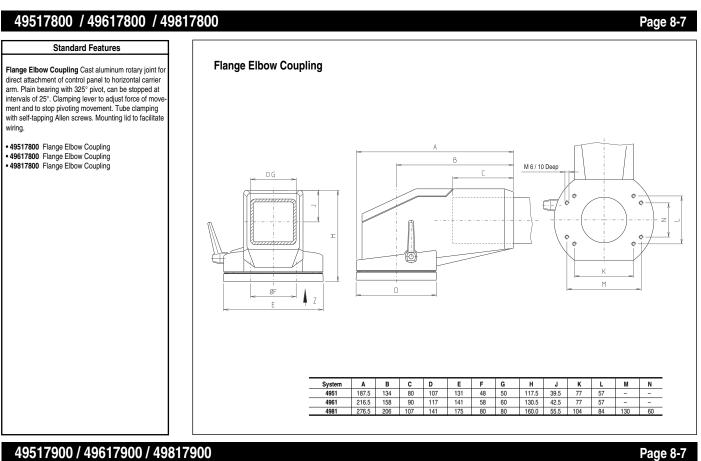


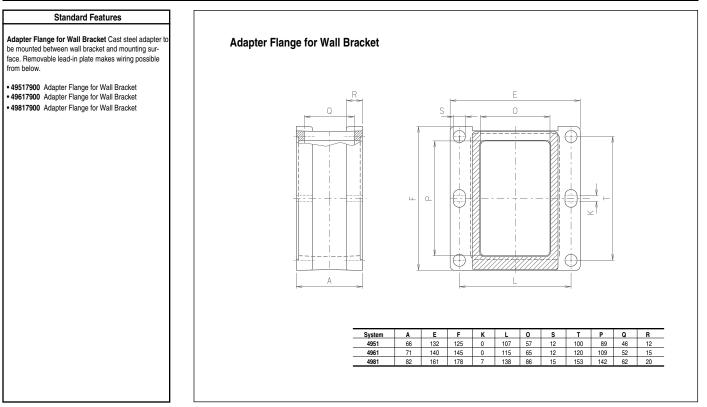
Cast administrating inforger enclosure hole. Attachment to connecting tube with self-tapping Allen screws. Additional safety screws for high loads. Durable PA bearing. Friction force of pivot, adjustable. Center of motion freely adjustable with clamping lever. Pivot 300°. • 49517500 Elbow Coupling • 49617500 Elbow Coupling

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 49817500 Elbow Coupling

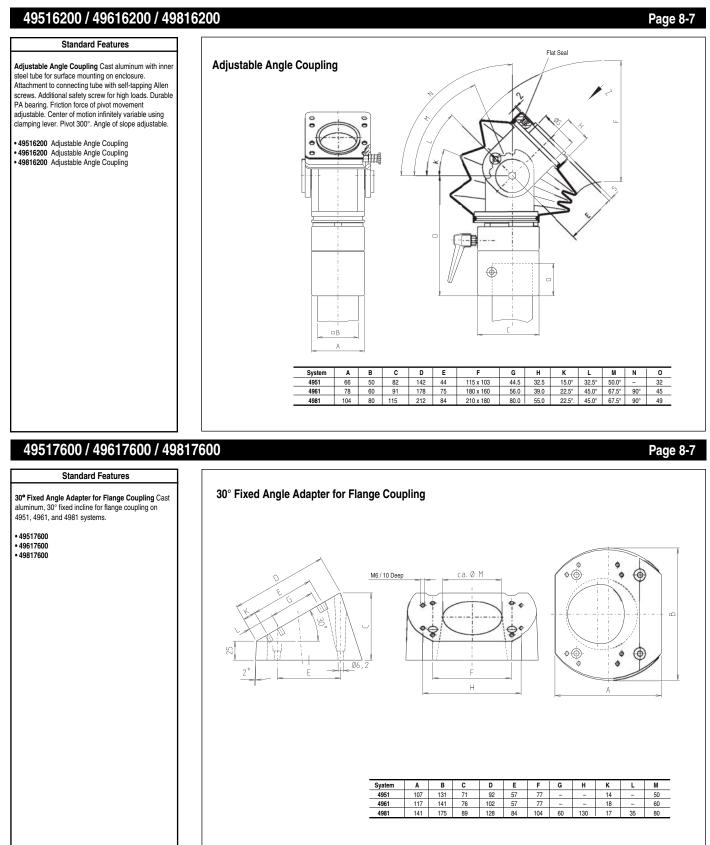


**Dimensional Drawings** 









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