

discover  
what  
we can do  
for you

[binottousa.com](http://binottousa.com)

**Binotto®**

THE TIPPING POWER







CAT\_US • Rev. B • 2019

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DRIVES YOU INTO THE FUTURE

## LONG-STANDING EXPERTISE

Binotto is a Global Leading Company operating in the industry of hydraulic systems for tipping trucks, trailers and semitrailers.

Serving more than 150 countries across the globe with subsidiaries, authorized dealers and specialized workshops, Binotto Group is based in Italy, with 5 state-of-the-art manufacturing plants worldwide: 3 in Europe, 1 in Brazil and 1 in China.

## EXTENSIVE RANGE

We design, manufacture and distribute a vast amount and variety of telescopic cylinders, with the widest selection for capacity and product variations. Suitable to fulfill all tipping applications.

## EXCELLENCE in DESIGN, SUPREMACY in PERFORMANCE

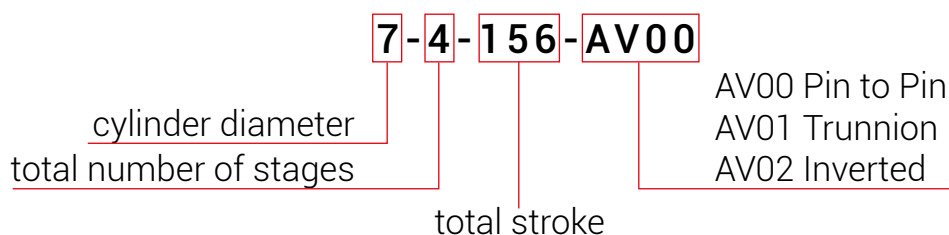
Binotto brand is highly rated for reliable and top-quality design of telescopic cylinders and complete hydraulic systems, including front-end and under-body telescopic cylinders, wet kits, oil tanks, pumps, ptos and valves.

## SINGLE ACTING FRONT MOUNT CYLINDERS

Trunnion type cylinders and pin-to-pin type cylinders are all available with Binotto B3 technology.



## PART NUMBER BREAKDOWN



Pin to Pin	5-3-072-AV00	6-3-120-AV00	6-4-156-AV00	7-4-156-AV00	8-5-220-AV00
	5-3-084-AV00	6-3-126-AV00	7-4-135-AV00	7-4-167-AV00	8-5-232-AV00
	6-3-110-AV00	6-3-137-AV00	7-4-147-AV00	7-4-182-AV00	8-5-250-AV00
				8-5-190-AV00	8-5-265-AV00
Trunnion	4.5-3-090-AV01	5.5-3-140-AV01	6.5-4-160-AV01	6.5-4-180-AV01	7.5-4-195-AV01
	5.5-3-130-AV01	6.5-4-150-AV01	6.5-4-170-AV01	7.5-4-185-AV01	
Inverted	8-5-195-AV02	8-5-212-AV02	8-5-232-AV02	8-5-268-AV02	8-5-278-AV02

## BINOTTO CONSTRUCTION features and benefits

- **Unique design** with B3 technology, the Binotto patented cushion system to increase durability and stability of your cylinder and your vehicle.
- **Ideal for dump bodies and dump trailers applications**, our cylinders cover a stroke range of 72-278 inches.
- **Seamless steel tubes** with high tensile strength and rocky resistance without weak points.
- **Solid design:** Stop-limit machined on the pure pipe in order to provide the user with maximum safety when the cylinder is fully extended.
- **Unbeatable exact clearances** between stages grants greater stability and safety when tipping.
- **Special finishing (hard roller burnishing) process** performed both inside and outside of the tubes
  - Increasing the superficial hardness up to 40% for higher resistance to side loads and scratches
  - Increasing the superficial smoothness to ensure better performance and long-lasting seals lifetime (up to 3 times longer).
  - Providing an amazing "mirror" effect
- **Hard chromed** final stage.
- **Low cylinder weight**, more payload capacity.
- **Low oil volume requirement**, lower oil expense, faster dumping.
- **Double seal system**, proved to work in the most extreme environmental conditions to prevent leakages
- **Delrin sliders**, performing at both high and low pressures.
- **Low maintenance** requirements.
- **No adjusting nuts.**
- **Self-bleeding design.**
- **Two year warranty.**

# B3

TECHNOLOGY

B3 is an exclusive  
**TECHNOLOGY** of Binotto  
which sets a new benchmark  
in tipping hoist performance

A clever and unique design provides a momentary cushion effect at the end of the stroke of each stage.

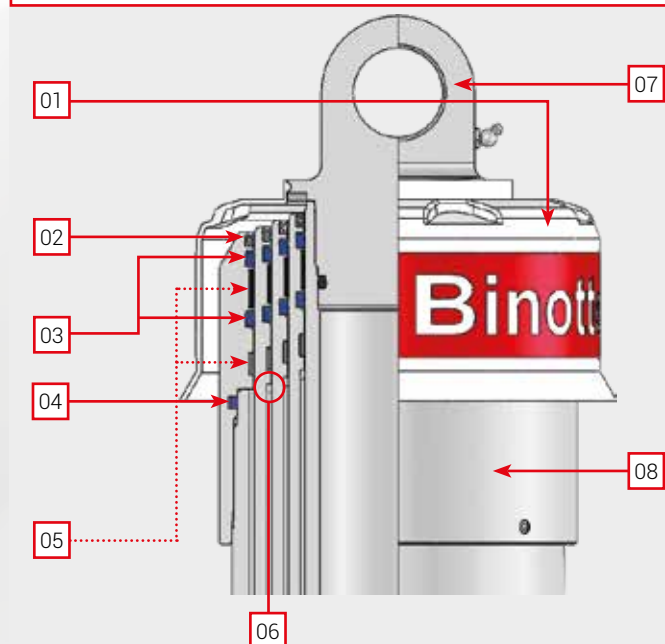
- Less noise, friction and vibration
- Longer seal and wiper lifespan
- Greater hoist protection and durability
- Enhanced safety, even at high speed
- Greater vehicle efficiency



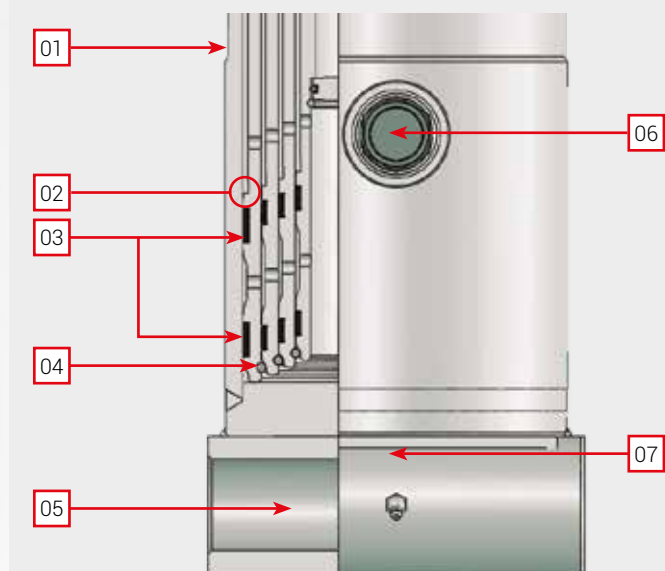
For more information

[www.b3cylinder.com](http://www.b3cylinder.com)

AV00

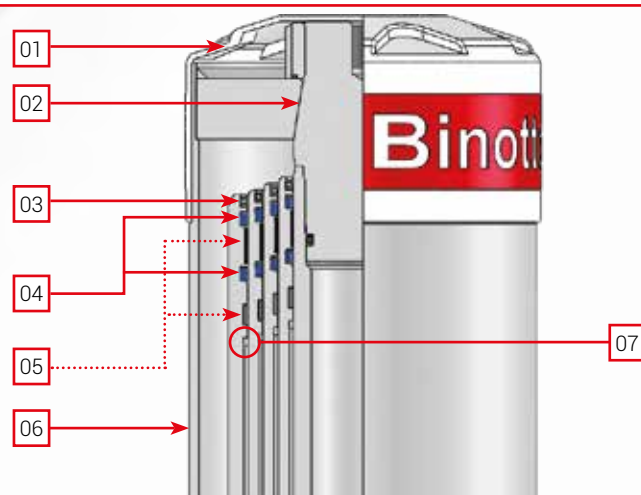


- 01 PROTECTIVE PLASTIC COVER
- 02 SPECIAL WIPER • DESIGNED TO REMOVE EVEN THE FINEST SAND
- 03 DOUBLE SEAL SYSTEM • MAJOR SAFETY • REDUCING RISK OF OIL LEAKING
- 04 TOP NUT SEAL
- 05 SLIDERS
- 06 END-OF-STROKE UPPER STOP-LIMIT
- 07 EYE TOP HEAD
- 08 TOP NUT

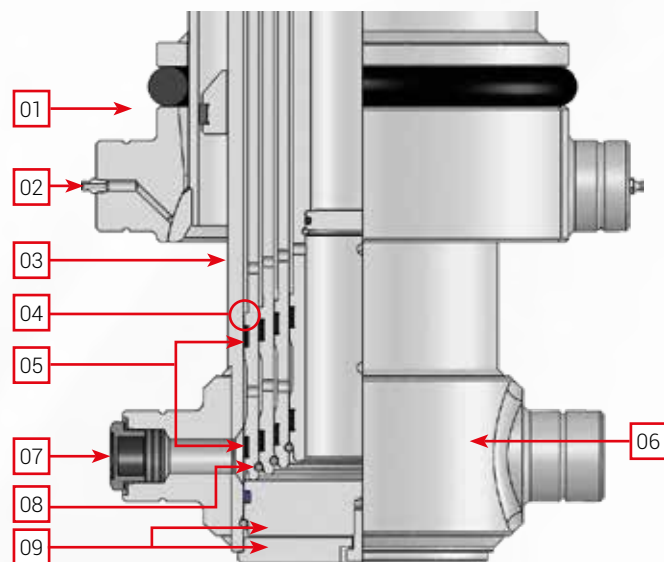


- 01 EXTERNAL TUBE
- 02 END-OF-STROKE LOWER STOP-LIMIT
- 03 LOWER SLIDERS
- 04 LOWER STOP RING
- 05 BUSHING WITH GREASER
- 06 OIL INLET
- 07 LOWER BOTTOM

AV01

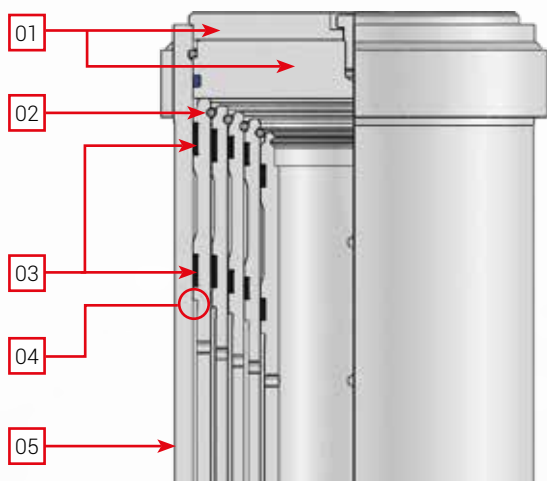


- 01 PROTECTIVE PLASTIC COVER
- 02 TOP HEAD • MORE ROBUST THANKS TO ITS CONICAL SHAPE
- 03 SPECIAL WIPER • DESIGNED TO REMOVE EVEN THE FINEST SAND
- 04 DOUBLE SEAL SYSTEM • MAJOR SAFETY • REDUCING RISK OF OIL LEAKING
- 05 SLIDERS
- 06 OUTER COVER
- 07 END-OF-STROKE UPPER STOP-LIMIT

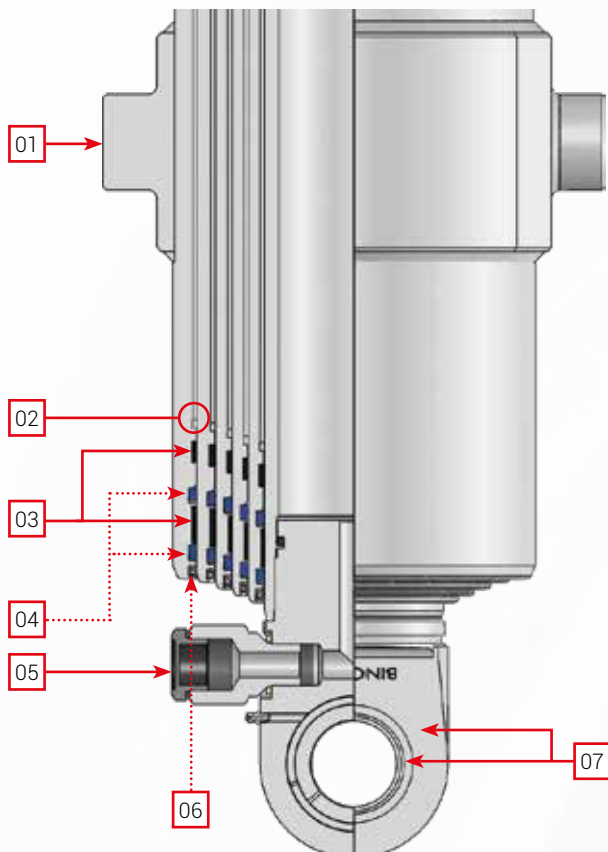


- 01 SWINGING COLLAR • ENSURING SIDE MOVEMENT:  $\pm 6^\circ$
- 02 GREASER FOR LUBRICATION OF THE COLLAR
- 03 EXTERNAL TUBE
- 04 END-OF-STROKE LOWER STOP-LIMIT
- 05 LOWER SLIDERS
- 06 LOWER COLLAR WITH TRUNNIONS
- 07 OIL INLET
- 08 LOWER STOP RING
- 09 LOWER BOTTOM AND COVER

## AV02

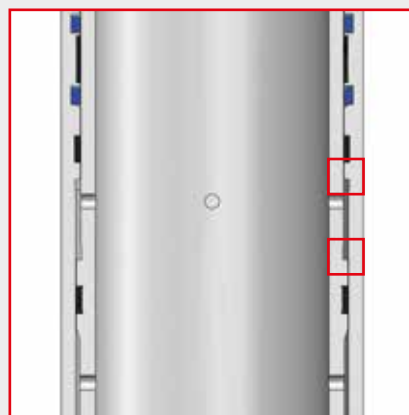


- 01 BOTTOM AND BOTTOM COVER
- 02 STOP RING (FOR CYLINDER DESCENT)
- 03 SLIDERS
- 04 END-OF-STROKE UPPER STOP-LIMIT
- 05 OUTER COVER

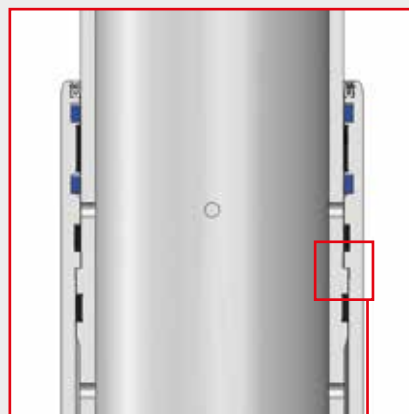


- 01 RIGID COLLAR
- 02 END-OF-STROKE LOWER STOP-LIMIT
- 03 LOWER SLIDERS
- 04 DOUBLE SEAL SYSTEM • MAJOR SAFETY • REDUCING RISK OF OIL LEAKING
- 05 OIL INLET
- 06 SPECIAL WIPER • DESIGNED TO REMOVE EVEN THE FINEST SAND
- 07 LOWER HEAD: EYE WITH SPHERICAL BEARING

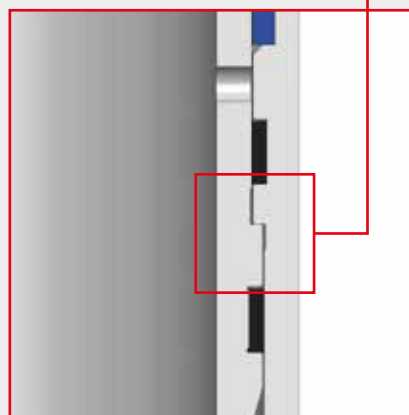
## STAGE STOPPER



UPPER AND LOWER  
STOP LIMITS BEFORE  
THE INNER STAGE  
REACHES ITS END OF  
STROKE



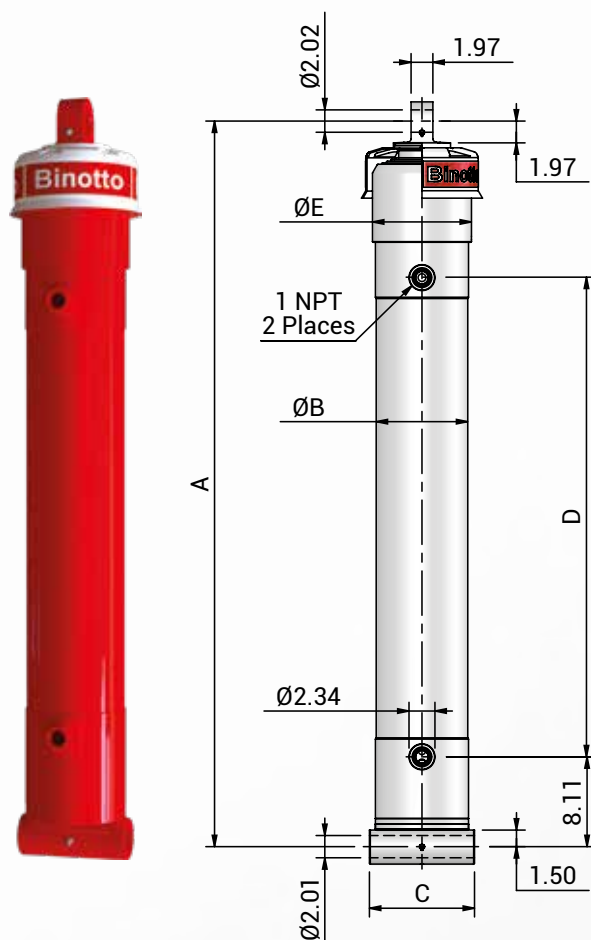
UPPER AND LOWER  
STOP LIMITS WITH  
INNER STAGE AT THE  
END OF ITS STROKE



STOP CONTACT FACES

STEEL TO STEEL  
NO IMPACT  
NO CLIPPED COMPONENTS  
ONLY SOLID TUBES  
THE SAFEST AND MOST ROBUST DESIGN

ONLY SAFE AND ROBUST "SOLID  
STOPPERS" BETWEEN THE STAGES,  
DIRECTLY MACHINED ON THE TUBE,  
WITHOUT CLIPPED STOP RINGS



### TECHNICAL INFORMATION

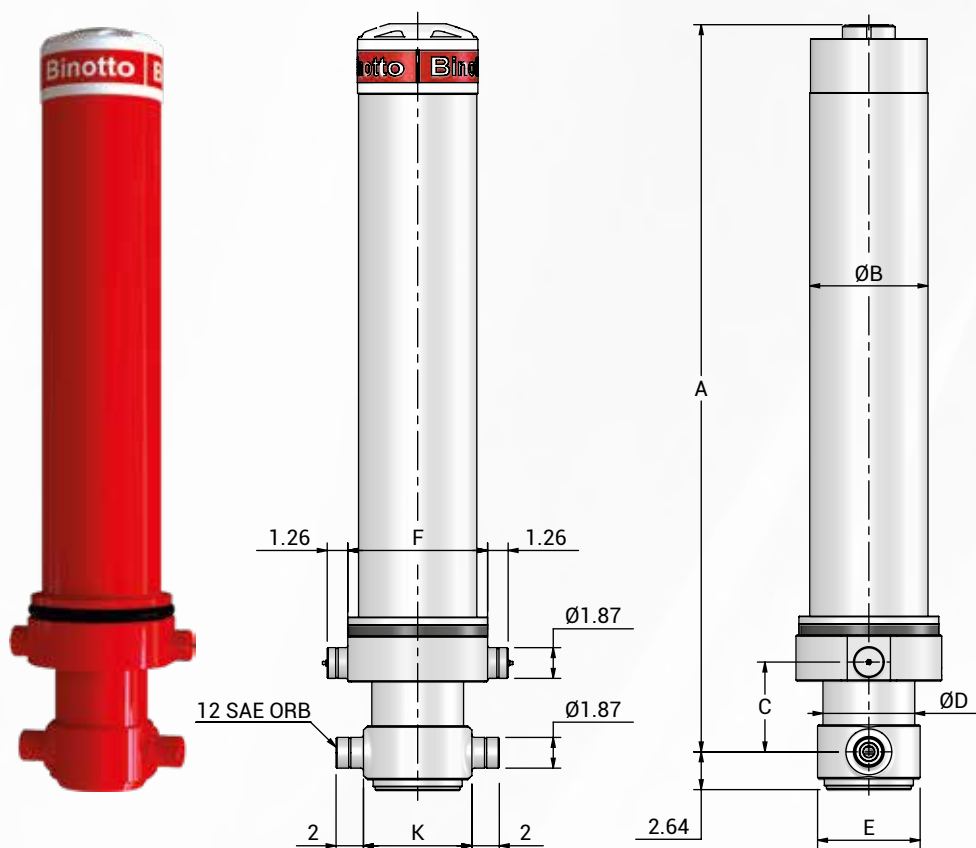
- The max tipping weight that can be raised by the cylinder is the body weight plus the max payload.
- Max pressure 2750 PSI due to NPT ports (Rated for 2900 PSI).
- Chrome plated 20µm on the smallest stage.
- Cylinder painted RAL7021.
- For oil specification refer to the user manual.
- Hydraulic oil temperature allowable range between -40°F to 212°F.
- Maximum extension speed cannot exceed 0.656 ft/s.

**B3**  
 TECHNOLOGY

Extended length = Closed length (A) + Total stroke

All Cylinders require a 0.75" PULL OUT (min-0.20", max +1.18"). Dimensions below do not include pull out.

Part Number	Stages [n°]	A [in]	ØB [in]	C [in]	D [in]	ØE [in]	Total Stroke [in]	Weight [lb]	Max. Oil. Cap. [gal]	Last Stage Ø [in]
5-3-072-AV00	3	37.08	5.71	7.00	16.14	6.53	72.28	189	4.43	3.46
5-3-084-AV00	3	41.02	5.71	7.00	20.08	6.53	84.09	208	5.18	3.46
6-3-110-AV00	3	50.87	6.49	7.00	29.92	7.28	110.67	287	9.40	4.21
6-3-120-AV00	3	52.83	6.49	7.00	31.89	7.28	118.35	295	10.05	4.21
6-3-126-AV00	3	55.20	6.49	7.00	34.25	7.28	126.03	316	10.70	4.21
6-3-137-AV00	3	58.74	6.49	7.00	37.80	7.28	136.65	335	11.61	4.21
6-4-156-AV00	4	52.99	6.49	7.00	31.89	7.28	157.80	327	11.66	3.46
7-4-135-AV00	4	47.67	7.36	8.23	26.57	8.07	135.75	367	13.51	4.21
7-4-147-AV00	4	51.02	7.36	8.23	29.92	8.07	147.56	389	14.70	4.21
7-4-156-AV00	4	52.99	7.36	8.23	31.89	8.07	157.80	397	15.71	4.21
7-4-167-AV00	4	55.35	7.36	8.23	34.25	8.07	168.00	415	16.73	4.21
7-4-182-AV00	4	58.89	7.36	8.23	37.79	8.07	182.20	435	18.14	4.21
8-5-190-AV00	5	53.93	8.26	9.49	30.67	8.94	190.36	517	22.18	4.21
8-5-220-AV00	5	59.84	8.26	9.49	37.36	8.94	221.85	590	25.85	4.21
8-5-232-AV00	5	61.81	8.26	9.49	39.33	8.94	231.70	609	26.99	4.21
8-5-250-AV00	5	68.30	8.26	9.49	43.27	8.94	251.38	651	29.29	4.21
8-5-265-AV00	5	69.68	8.26	9.49	47.20	8.94	268.70	687	31.30	4.21



## TECHNICAL INFORMATION

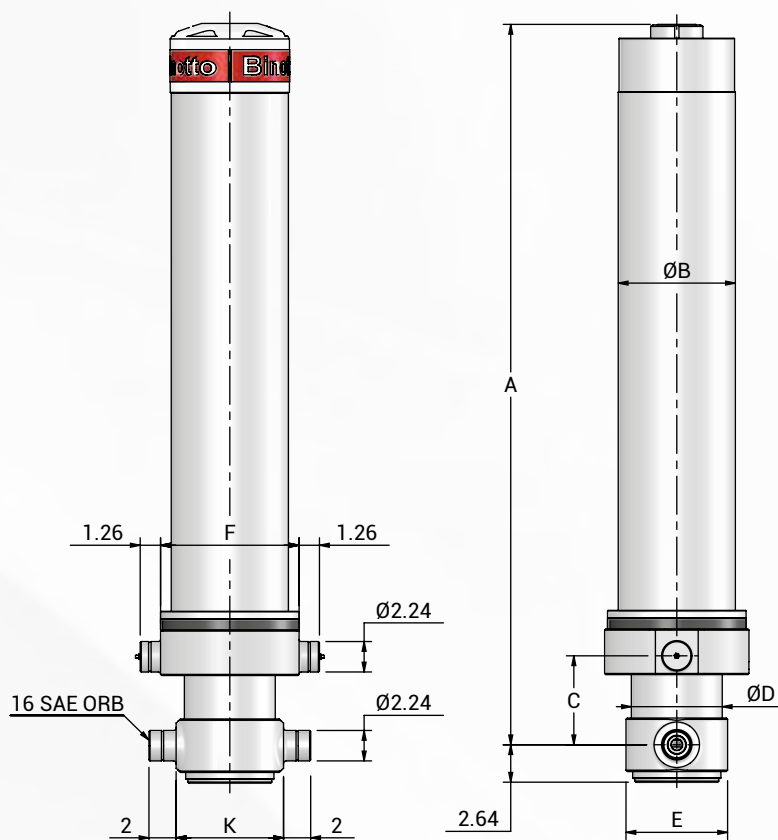
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- Chrome plated 20µm on the smallest stage.
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All Cylinders require a 0.75" PULL OUT (min-0.20", max +1.18"). Dimensions below do not include pull out.

Part Number	Stages [n°]	A [in]	ØB [in]	C [in]	ØD [in]	E [in]	F [in]	K [in]	Total Stroke [in]	Weight [lb]	Max. Oil. Cap. [gal]	Last Stage Ø [in]
4.5-3-090-AV01	3	41.25	5.98	4.72	4.96	6.30	7.91	5.79	90.00	271	3.79	2.71
5.5-3-130-AV01	3	53.23	7.68	5.59	5.71	6.89	9.02	7.01	126.00	421	7.76	3.46
5.5-3-140-AV01	3	56.77	7.68	5.59	5.71	6.89	9.02	7.01	137.00	465	8.42	3.46



## TECHNICAL INFORMATION

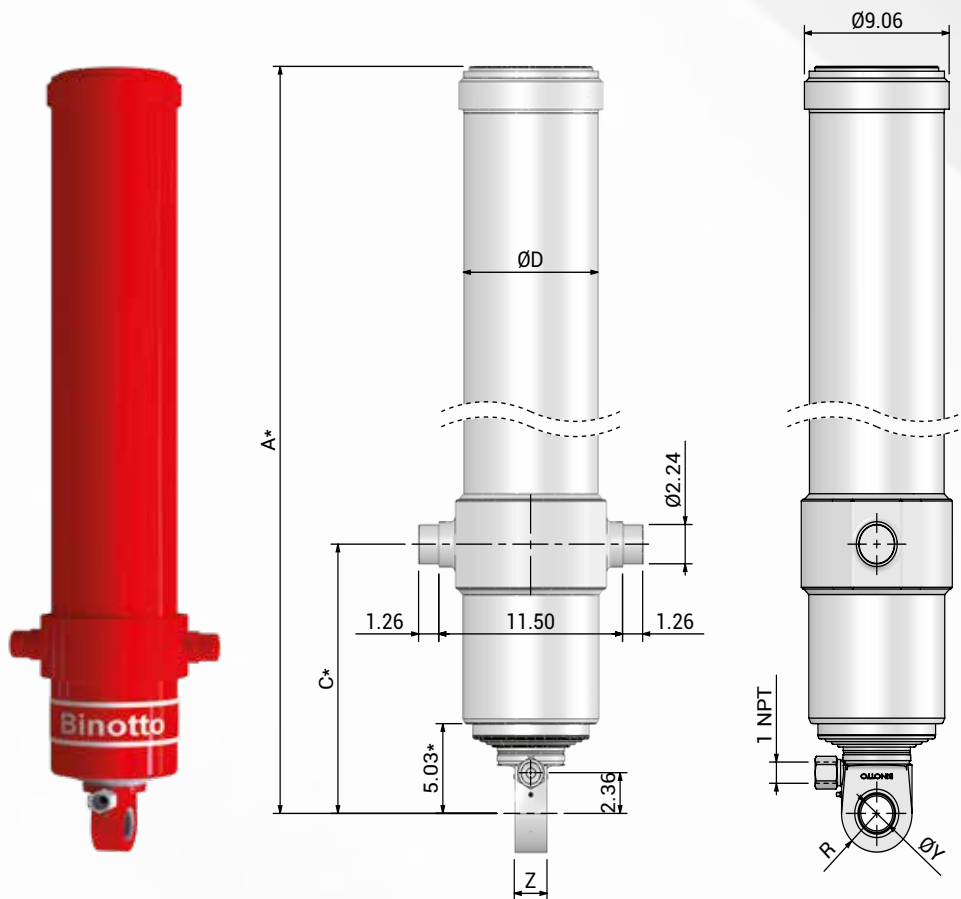
- The max tipping weight that can be raised by the cylinder is the body weight plus the max payload.
- Max pressure 2750 PSI due to NPT ports (Rated for 2900 PSI).
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**B3**  
TECHNOLOGY

Extended length = Closed length (A) + Total stroke

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Part Number	Stages [n°]	A [in]	ØB [in]	C [in]	ØD [in]	E [in]	F [in]	K [in]	Total Stroke [in]	Weight [lb]	Max. Oil. Cap. [gal]	Last Stage Ø [in]
6.5-4-150-AV01	4	49.05	8.62	6.85	6.49	7.48	10.20	7.91	147.56	459	10.90	3.46
6.5-4-160-AV01	4	51.02	8.62	6.85	6.49	7.48	10.20	7.91	157.80	474	11.66	3.46
6.5-4-170-AV01	4	53.39	8.62	6.85	6.49	7.48	10.20	7.91	168.00	496	12.42	3.46
6.5-4-180-AV01	4	56.93	8.62	6.85	6.49	7.48	10.20	7.91	182.20	551	13.47	3.46
7.5-4-185-AV01	4	56.93	9.61	8.86	7.36	8.66	12.95	9.02	182.20	728	18.14	4.21
7.5-4-195-AV01	4	60.86	9.61	8.86	7.36	8.66	12.95	9.02	193.30	783	19.24	4.21



## TECHNICAL INFORMATION

- The max tipping weight that can be raised by the cylinder is the body weight plus the max payload.
- Max pressure 2750 PSI due to NPT ports (Rated for 2900 PSI).
- Chrome plated 20µm on the smallest stage.
- Cylinder painted RAL7021.
- For oil specification refer to the user manual.
- Hydraulic oil temperature allowable range between -40°F to 212°F.
- Maximum extension speed cannot exceed 0.656 ft/s.

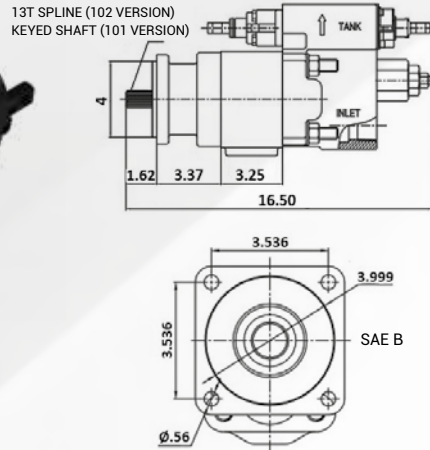
**B3**  
TECHNOLOGY

Extended length = Closed length (A) + Total stroke

\* Indicates that a 0.75" PULL OUT (min-0.20", max +1.18") is included in these dimensions.

Part Number	Stages [n°]	A* [in]	C* [in]	ØD [in]	R [in]	Y [in]	Z [in]	Total Stroke [in]	Weight [lb]	Max. Oil. Cap. [gal]	Last Stage Ø [in]
8-5-195-AV02	5	54.21	15.35	8.43	2.20	2.00	2.05	194.30	571.00	22.60	4.21
8-5-212-AV02	5	58.14	15.35	8.43	2.20	2.00	2.05	212.00	612.00	24.70	4.21
8-5-232-AV02	5	62.08	15.35	8.43	2.20	2.00	2.05	231.69	652.00	27.00	4.21
8-5-268-AV02	5	69.95	15.35	8.43	2.20	2.00	2.05	268.60	734.00	31.30	4.21
8-5-278-AV02	5	71.92	15.35	8.43	2.20	2.00	2.05	278.50	756.00	32.40	4.21

# DUMP PUMPS



Part Number	Shift Method	Rotation	Mounting Method
BTC102-LAS-25	Air	Left Hand	Direct Mount
BTC102-RAS-25	Air	Right Hand	Direct Mount
BTC102-LMS-25	Manual	Left Hand	Direct Mount
BTC102-RMS-25	Manual	Right Hand	Direct Mount
BTC101-LAS-25	Air	Left Hand	Remote Mount
BTC101-RAS-25	Air	Right Hand	Remote Mount
BTC101-LMS-25	Manual	Left Hand	Remote Mount
BTC101-RMS-25	Manual	Right Hand	Remote Mount

## DUMP PUMP

### BTC Series

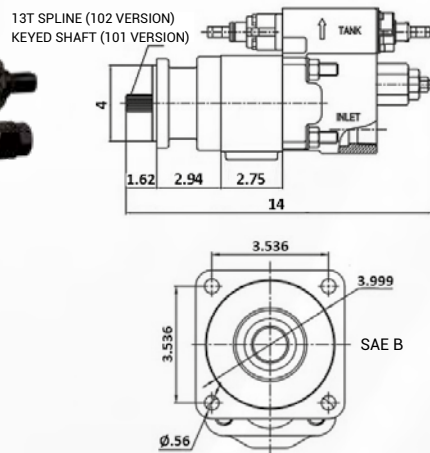
#### Technical Information

- Gear Size: 2-1/2 Inch
- Inlet Port: 1-1/4" NPT
- Return/Pressure Port: 1" NPT
- Displacement (CI/Rev): 6.38
- Paint: Black
- GPM at 1000 RPM: 27.61
- Max Pressure: 2500 PSI
- Max Speed: 1800 RPM
- Weight: 70 lbs

### C102AS



Binotto BTC series dump pump air shifter



Part Number	Shift Method	Rotation	Mounting Method
BTG102-LAS-20	Air	Left Hand	Direct Mount
BTG102-RAS-20	Air	Right Hand	Direct Mount
BTG102-LMS-20	Manual	Left Hand	Direct Mount
BTG102-RMS-20	Manual	Right Hand	Direct Mount
BTG101-LAS-25	Air	Left Hand	Remote Mount
BTG101-RAS-25	Air	Right Hand	Remote Mount
BTG101-LMS-25	Manual	Left Hand	Remote Mount
BTG101-RMS-25	Manual	Right Hand	Remote Mount

## DUMP PUMP

### BTG Series

#### Technical Information

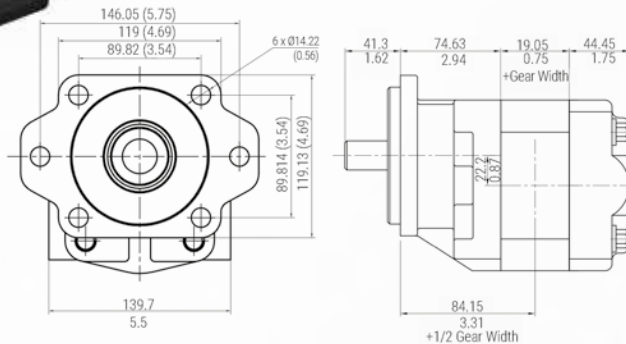
- Gear Size: 2 Inch
- Inlet Port: 1-1/4" NPT
- Return/Pressure Port: 3/4" NPT
- Displacement (CI/Rev): 3.94
- Paint: Black
- GPM at 1000 RPM: 17.05
- Max Pressure: 2500 PSI
- Max Speed: 1800 RPM
- Weight: 38 lbs

### G102AS



Binotto BTG series dump pump air shifter

Note: Conversion sleeve included with each pump • It must be installed when using a 3-line system. Do not use sleeve when pump is being used on a 2-line system.



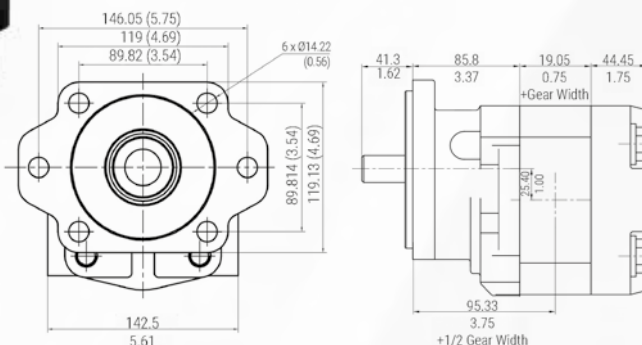
## GEAR PUMP

BTP21

### Technical Information

- Flange: SAE-B 2/4 Bolt
- Speed/range: 600-2400 RPM
- Shaft: 13T Spline
- Bi-rotational gear pump

Part Number	Rear Port	Side Port	Gear Width	Weight [lbs]	Displacement [CI/REV]	GPM at 1000 RPM	Max Pressure [PSI]	Max Speed [RPM]
BTP21BDN10-10	1" NPT	Blanked	1"	32.0	1.97	8.52	2400	3000
BTP21BDS10-10	1" SAE ORB	Blanked	1"	32.0	1.97	8.52	2400	3000
BTP21BDN11-12	1" NPT	1" NPT	1-1/4"	33.0	2.47	10.69	2400	3000
BTP21BDN14-12	1" NPT	1-1/4" NPT	1-1/4"	33.0	2.47	10.69	2400	3000
BTP21BDS11-12	1" SAE ORB	1" SAE ORB	1-1/4"	33.0	2.47	10.69	2400	3000
BTP21BDN11-15	1" NPT	1" NPT	1-1/2"	34.0	2.95	12.77	2400	3000
BTP21BDS11-15	1" SAE ORB	1-1/4" NPT	1-1/2"	34.0	2.95	12.77	2400	3000
BTP21BDN14-17	1" NPT	1" NPT	1-3/4"	35.0	3.45	14.93	2400	2500
BTP21BDS14-17	1" SAE ORB	1-1/4" SAE ORB	1-3/4"	35.0	3.45	14.93	2400	2500
BTP21BDN14-20	1" NPT	1-1/4" NPT	2"	36.0	3.94	17.05	2400	2500
BTP21BDS14-20	1" SAE ORB	1-1/4" SAE ORB	2"	36.0	3.94	17.05	2400	2500



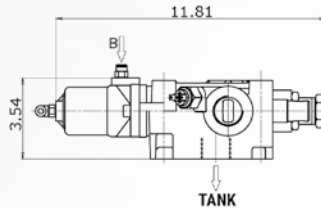
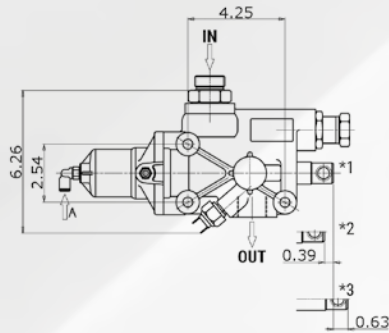
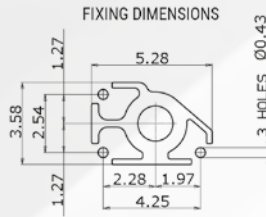
## GEAR PUMP

BTP51

### Technical Information

- Flange: SAE-B 2/4 Bolt
- Speed/range: 600-2400 RPM
- Shaft: 13T Spline
- Bi-rotational gear pump

Part Number	Rear Port	Side Port	Gear Width	Weight [lbs]	Displacement [CI/REV]	GPM at 1000 RPM	Max Pressure [PSI]	Max Speed [RPM]
BTP51BDN24-17	1-1/2" NPT	1-1/4" NPT	1-3/4"	47.5	4.46	19.30	3000	2400
BTP51BDN24-20	1-1/2" NPT	1-1/4" NPT	2"	49.0	5.10	22.07	2500	2400
BTP51BDN24-22	1-1/2" NPT	1-1/4" NPT	2-1/4"	51.0	5.74	24.84	2500	2400
BTP51BDN22-25	1-1/2" NPT	1-1/2" NPT	2-1/2"	53.5	6.38	27.61	2500	2400
BTP51BDN02-25	Blanked	1-1/2" NPT	2-1/2"	53.5	6.38	27.61	2500	2400



**A = PROPORTIONAL LOWERING**  
**B = TIPPING**  
\*1 = REST POSITION  
\*2 = TIPPING  
\*3 = LOWERING

## TIPPER VALVE

### SINGLE PRESSURE VALVE

#### Technical Information

Proportional pneumatic tipping valve suitable for large oil flow applications especially designed for heavy-duty tipper bodies, off-road trucks and semi-trailers. Operated by proportional cab control. Open center hydraulic scheme according to CE standards.

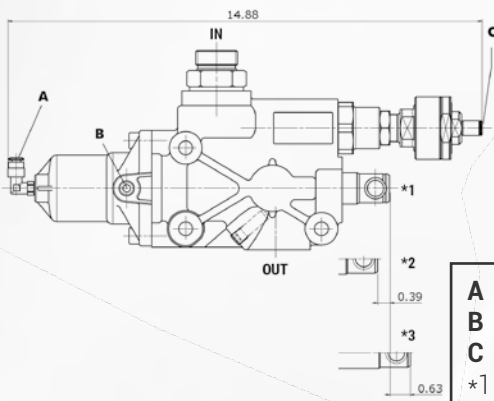
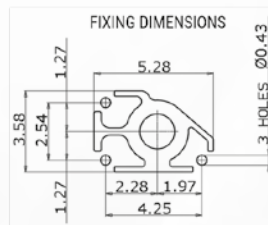
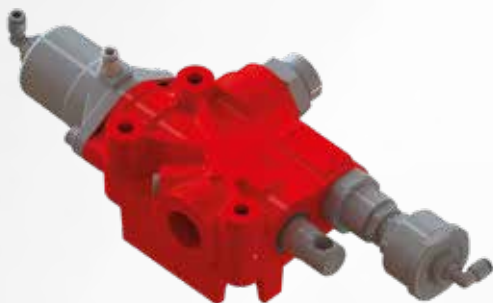
- Built-in check & adjustable relief valves (direct type).
- Modular cast-iron body for pressure up to 5801 psi (400 bar).
- Either chassis or tank mounting options.
- Mechanical Direct End-of-stroke.
- Ready for pressure signal switch mounting.
- Galvanized body and nickel spool.
- Guaranteed for oil temperature range: 5 to 230 Deg. F. (-15 to 110 Deg. C), Viscosity range 12 to 100 cSt & oil filtering 25 micron.

Part Number

Description

VR2DQ0C1CTUXUX5B11

Single Pressure Tipper Valve - Relief Valve Set at 2320 PSI (160 bar)



**A = PROPORTIONAL LOWERING**  
**B = TIPPING**  
**C = 2nd PRESSURE AIR**  
\*1 = REST POSITION  
\*2 = TIPPING  
\*3 = LOWERING

## TIPPER VALVE

### DUAL PRESSURE VALVE

#### Technical Information

Proportional pneumatic tipping valve suitable for large oil flow applications especially designed for heavy-duty tipper bodies and semi-trailers with two independent working pressures which can be selected pneumatically. Operated by proportional cab control. Open center hydraulic scheme according to CE standards.

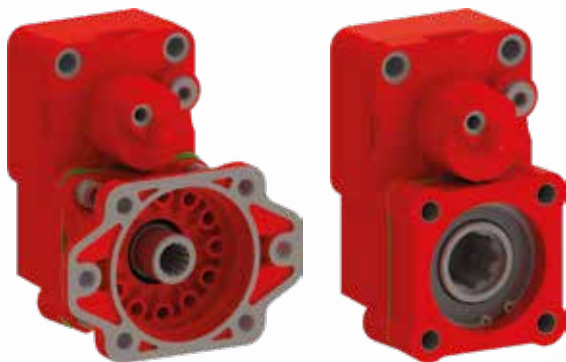
- Built-in check & dual pressure adjustable relief valve (pilot type).
- Modular cast-iron body for pressure up to 5801 psi (400 bar).
- Either chassis or tank mounting options.
- Mechanical Direct End-of-stroke.
- Ready for pressure signal switch mounting.
- Galvanized body and nickel spool.
- Guaranteed for oil temperature range: 5 to 230 Deg. F. (-15 to 110 Deg. C), Viscosity range 12 to 100 cSt & oil filtering 25 micron.

Part Number

Description

VR6DQ3T1CTUXUX5B11

Dual Pressure Tipper Valve - Relief Valve Set at 2030 PSI (140 bar) and 3335 PSI (230 bar)



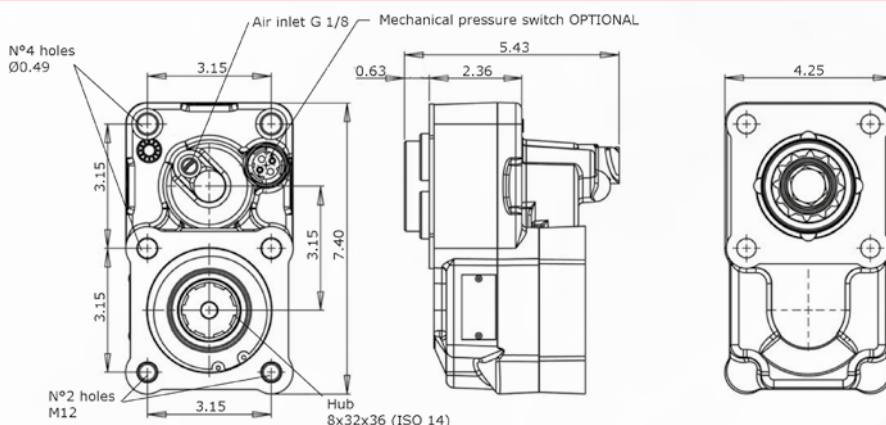
## PTO FOR VOLVO I SHIFT AND MACK M DRIVE TRANSMISSIONS

PTO - ISO / SAE-B

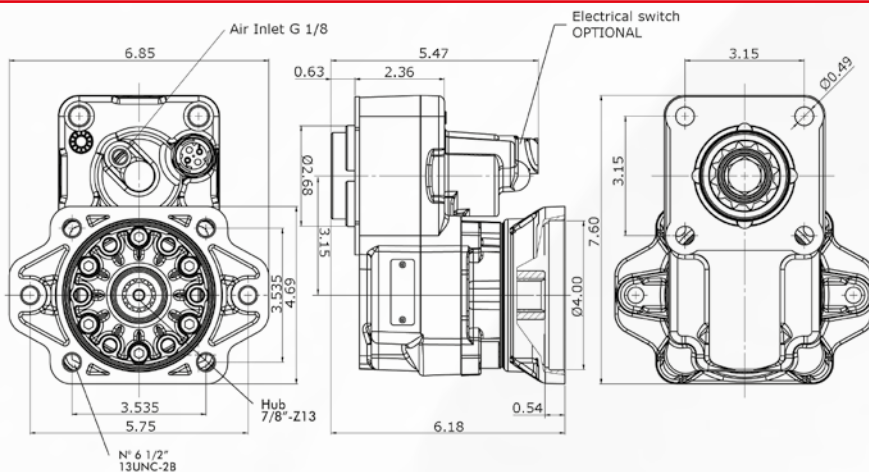
### Technical Information

- Maximum Torque: 300 Nm (221 ft-lbs)
- Mounting side: Rear
- Output: Rear
- Internal Ratio: 1:1.35

### Volvo PTO ISO Output Option Below:



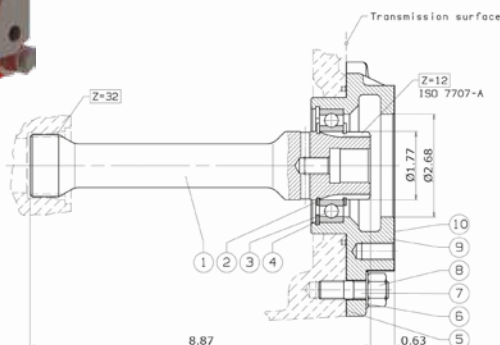
### Volvo PTO SAE-B Output Option Below:



Part Number	Output Option	Version	Rotation	Weight
PTO01007708170BI11	ISO	17	ACW	5.6 kg (12.34 lbs.)
PTO01007700525BI11	SAE-B	52	ACW	7.1 kg (15.65 lbs.)

### Accessories

Part Number	Description
KMN15400304767BI11	STUD KIT (Included standard with PTO)
ITPIT0EG275BI10001	PRESSURE SWITCH VOLVO PTO (Included standard with PTO)
RCARBBA00MAC014B01	AIR FITTING VOLVO PTO (Included standard with PTO)
KCRC1030PPTWJ01001	SAE-B GASKET (Included standard with PTO)



Part Number	Description
ALB09302600059BI11	Volvo Quill Shaft & Flange Kit, Fits SAE-B and ISO mount output

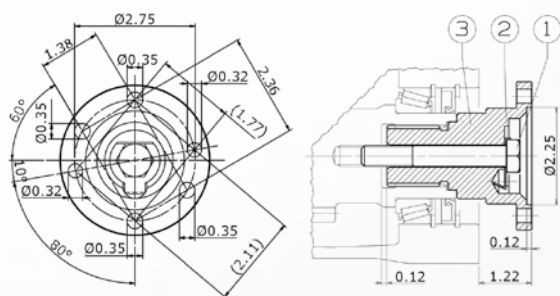
## PTO FOR VOLVO I SHIFT AND MACK M DRIVE TRANSMISSIONS

### Quill Shaft & Flange

#### Bill Of Material

Item	Qty	Description
1	1	Quill Shaft
2	2	Circlip E 45
3	1	Ball Bearing
4	1	Circlip I 75
5	1	Gasket Seal
6	4	Washer
7	4	Nut M12 CH17 H12
8	4	Stud Bolt M12x27
9	1	Shift-PTO Coupling Flange
10	1	Gasket Seal

### Volvo/Mack Flange Kit (P/N: GCD11400001043BI11) Spicer 1120 Equal:

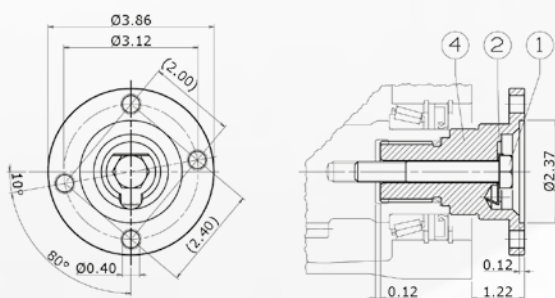


### PTO Flange Kits

#### Bill Of Material

Item	Qty	Description
1	1	Screw M12x85
2	1	Back-up Washer M12
3	1	1120 Flange

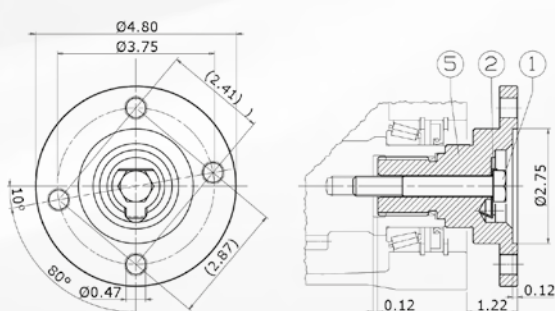
### Volvo/Mack Flange Kit (P/N: GCD11400001105BI11) Spicer 1300 Equal:



#### Bill Of Material

Item	Qty	Description
1	1	Screw M12x85
2	1	Back-up Washer M12
4	1	1300 Flange

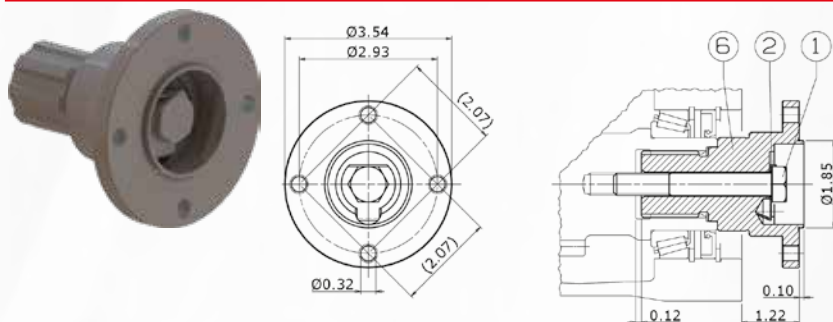
### Volvo/Mack Flange Kit (P/N: GCD11400001516BI11) Spicer 1410 Equal:



#### Bill Of Material

Item	Qty	Description
1	1	Screw M12x85
2	1	Back-up Washer M12
5	1	1410 Flange

## Volvo/Mack Flange Kit (P/N: GCD11400001427BI11) DIN 00:

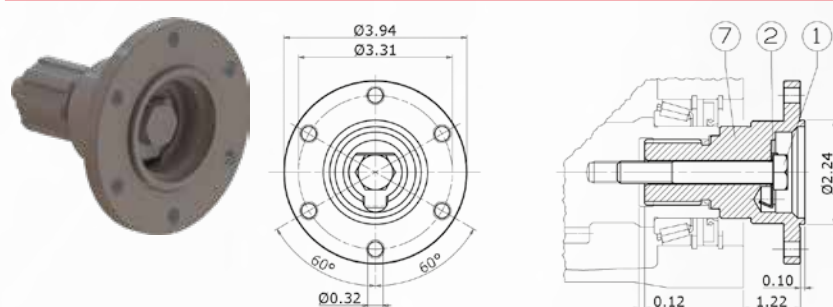


## PTO Flange Kits

### Bill Of Material

Item	Qty	Description
1	1	Screw M12x85
2	1	Back-up Washer M12
6	1	DIN 00 Flange

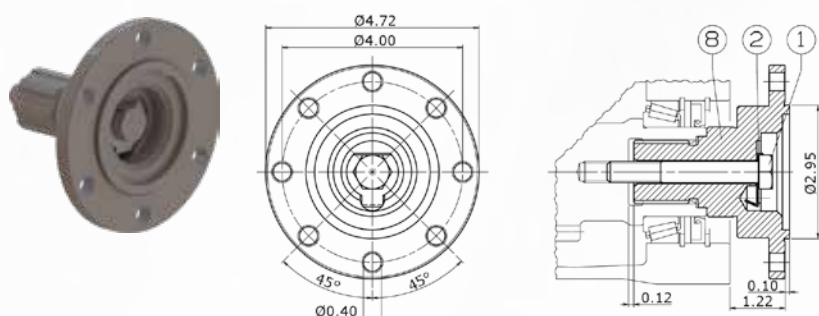
## Volvo/Mack Flange Kit (P/N: GCD11400001294BI11) DIN 10:



### Bill Of Material

Item	Qty	Description
1	1	Screw M12x85
2	1	Back-up Washer M12
7	1	DIN 10 Flange

## Volvo/Mack Flange Kit (P/N: GCD11400001310BI11) DIN 120:



### Bill Of Material

Item	Qty	Description
1	1	Screw M12x85
2	1	Back-up Washer M12
8	1	DIN 120 Flange

# HYDRAULIC TANKS - SADDLE MOUNTED



## TANKS

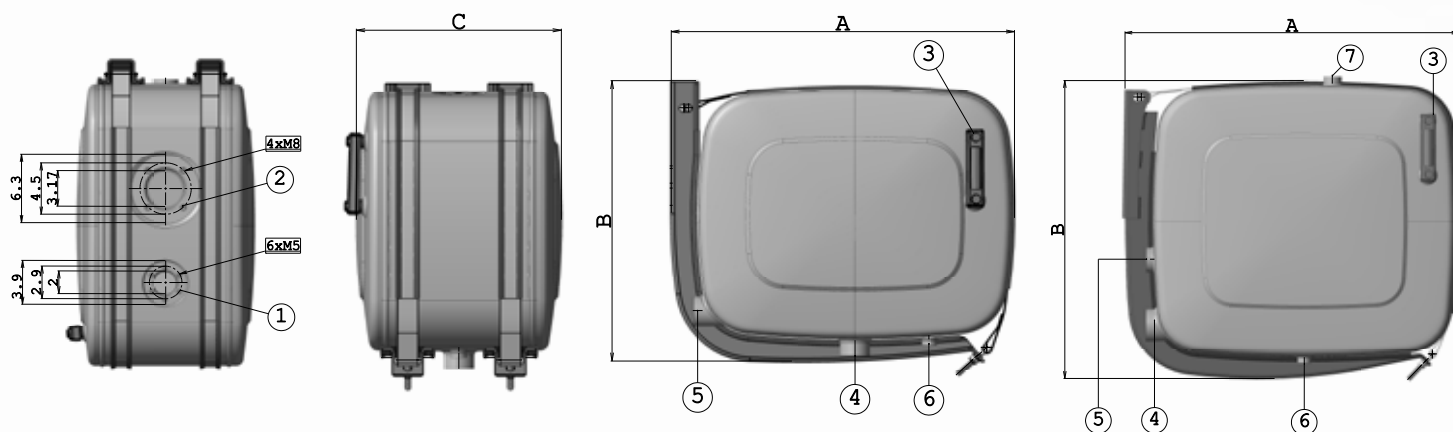
### SADDLE MOUNT

#### Technical Information

- Aluminum construction
- 5" Sight Glass with temperature included
- Magnetic drain plug included
- Sleek design
- Return filter port
- Versatile mounting (saddle or upright)

Item	Description	Qty
1	Oil Cap Flange	1
2	Return Filter Flange	1
3	Level Gauge (5") with temperature	1
4	Oil Suction Connection 1" 1/2 NPT (2" for 51.5 gallon tanks)	1
5	Oil Return Connection 1-1/4" NPT	1
6	Drain Plug 3/4" NPT	1
7	Air Filter Connection 3/4" NPT (only for 51.5 gallon tanks)	1

Notes: All dimensions are in inches • Saddle brackets with straps and steel cap included



18, 21, and 28 gallon tanks

35 and 51.5 gallon tanks

Part Number	Volume [us gal]	A [in]	B [in]	C [in]
SRBL2N03502TANSNJ1	18.0	23.9	22.5	13.8
SRBL2N04003TANSNJ1	21.0	23.9	22.5	15.7
SRBL2N04003TANSNJ1	28.0	27.5	23.6	15.7
SRBL2S03506TANSNJ1	35.0	31.0	28.0	13.8
SRBL2S05008TANSNJ1	51.5	31.0	28.0	19.7

# HYDRAULIC TANKS - UPRIGHT MOUNTED



## TANKS

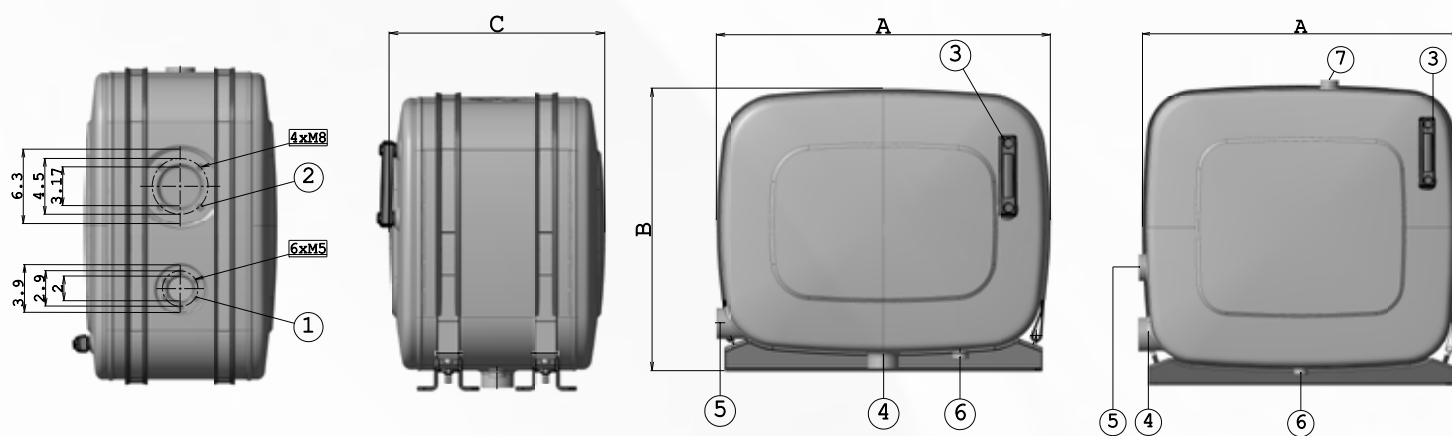
### UPRIGHT MOUNT

#### Technical Information

- Aluminum construction
- 5" Sight Glass with temperature included
- Magnetic drain plug included
- Sleek design
- Return filter port
- Versatile mounting (saddle or upright)

Item	Description	Qty
1	Oil Cap Flange	1
2	Return Filter Flange	1
3	Level Gauge (5") with temperature	1
4	Oil Suction Connection 1" 1/2 NPT (2" for 51.5 gallon tanks)	1
5	Oil Return Connection 1-1/4" NPT	1
6	Drain Plug 3/4" NPT	1
7	Air Filter Connection 3/4" NPT (only for 51.5 gallon tanks)	1

Notes: All dimensions are in inches • Upright brackets with straps and steel cap included

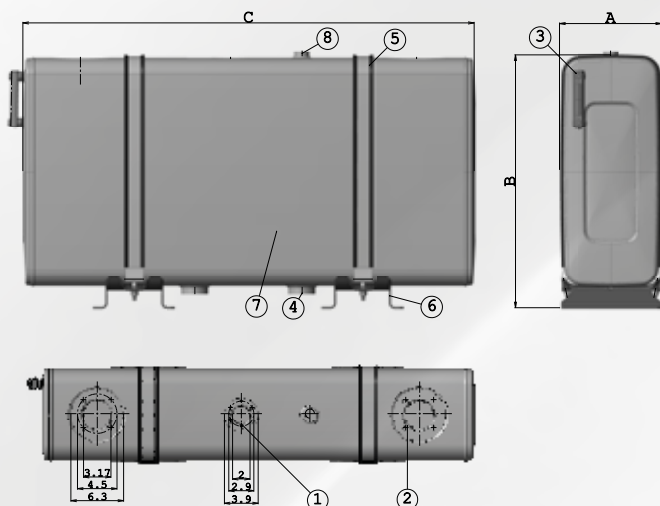


18, 21, and 28 gallon tanks

35 and 51.5 gallon tanks

Part Number	Volume [us gal]	A [in]	B [in]	C [in]
SRBL2N03502TANRNJ1	18.0	22.0	20.0	13.8
SRBL2N04003TANRNJ1	21.0	22.0	20.0	15.7
SRBL2Q04004TANRNJ1	28.0	26.0	22.0	15.7
SRBL2S03506TANRNJ1	35.0	29.0	27.0	13.8
SRBL2S05008TANRNJ1	51.5	29.0	27.0	19.7

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## UPRIGHT MOUNT

- Aluminum construction
- 5" Sight Glass with temperature included
- Magnetic drain plug included
- Sleek design
- Return filter port

Item	Description	Qty
1	Oil Cap Flange	1
2	Return Filter Flange	2
3	Level Gauge (5") with temperature	1
4	Oil Suction Connection 2" NPT	2
5	Straps	2
6	Upright Brackets	2
7	Partition	3
8	Air Filter Connection 3/4" NPT	1

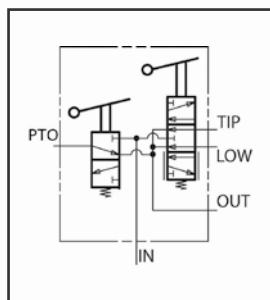
Notes: All dimensions are in inches • Upright brackets with straps and steel cap included

Part Number	Volume [us gal]	A [in]	B [in]	C [in]
SRBR2D12605TCN2NJ1	53.0	10.6	28.0	49.7

## MOUNTING DIMENSIONS

## UPRIGHT MOUNTING BRACKETS

18



## ACCESSORIES

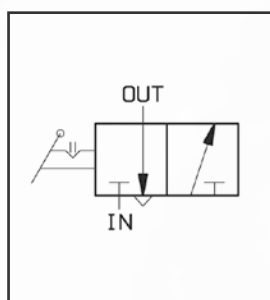
### CAB CONTROLS

#### B-POWER pneumatic cab control

3-way pneumatic proportional cab control (TIP/LOW and PTO) with automatic lever return. Led indicator included.



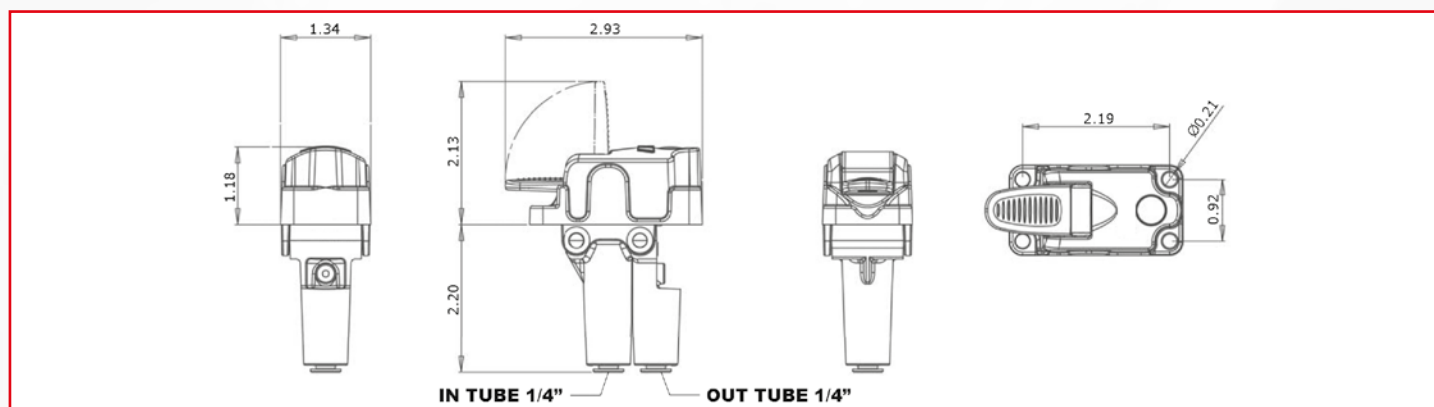
Part Number	Description	Air Connection
CCRPC7L1ADLD14S101	B-Power pneumatic cab control. TIP+LOW+PTO	1/4"



## ACCESSORIES

### PNEUMATIC LEVER

Pneumatic lever with led indicator for PTO control (max pressure 12 bar).



Part Number	Description	Air Connection
CCRPC1L0000D14S101	Pneumatic lever with led indicator	1/4"

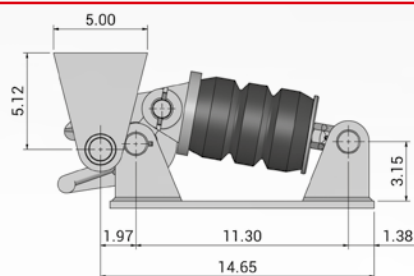


## ACCESSORIES

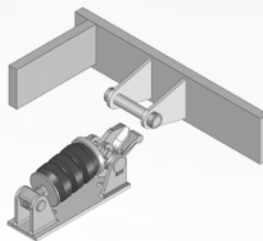
### BODY CLAMP

#### Bodyfix

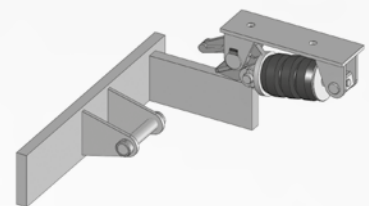
This mechanism creates a fixed connection between the dump trailer and the chassis. A locking bar (mounted on the chassis underneath the dump trailer) engages with the hook (installed on the body) as the body is lowered. The weight of the body itself forces the hook over center into the lock position, preventing rattling.



Mounting dimensions



Installation view with hook installed on the chassis



Installation view with hook installed on the body



## ACCESSORIES

### RETURN FILTER

Submerged return filter for saddle and upright oil tanks.

Part Number

Description

FLTEN1MDAE5DH058J1

Easy Oil Filter 135mm flg. 21m 1NPT 47.5GPM



## ACCESSORIES

### RETURN FILTER

Standard return filter for saddle and upright oil tanks.


Part Number

Description

FLTAF1MDAD3DI097J1

Semisum. Oil Filter 135mm flg. 21m 1NPT 33GPM





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