

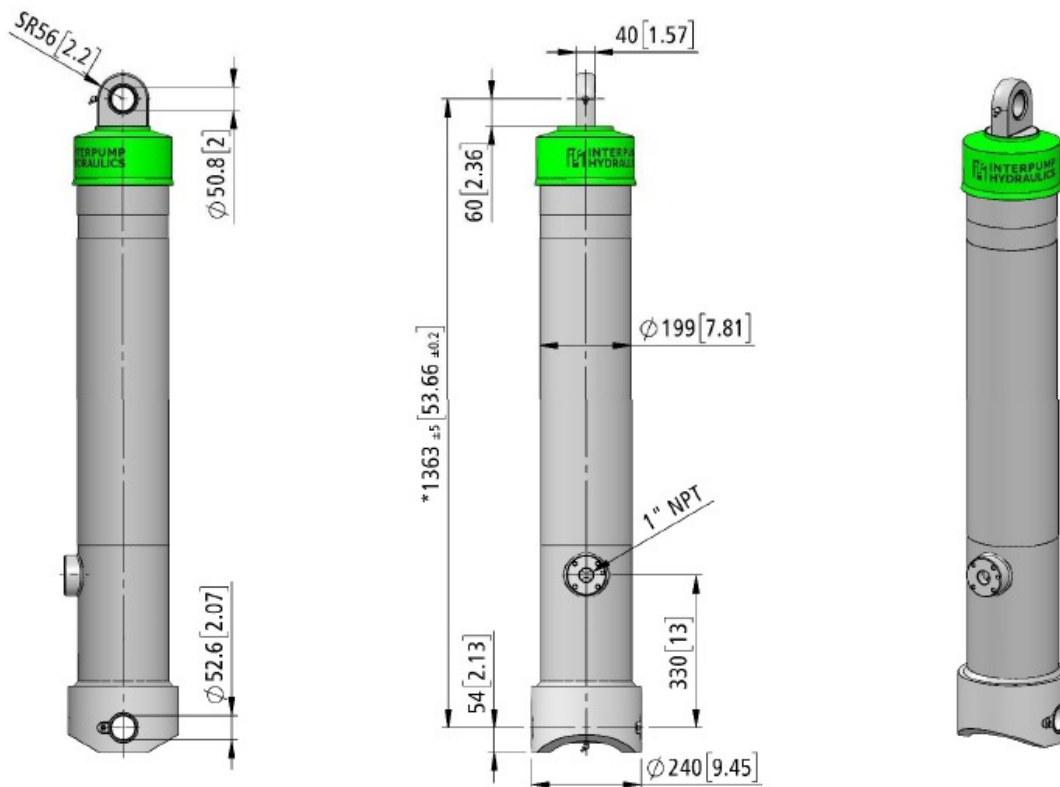


Muncie®
Power
Products

SINGLE ACTING TELESCOPIC CYLINDER

MODEL NO: 8-5-190-A30

Dwg Units: mm[in]



Mounting Dimensions: 53.66" (1363 mm) (0.79" (20 mm) min. pull out included)

Max Pressure: 3625 PSI / 250 Bar***

MODEL NO: 8-5-190-A30

Rebuild Kit Part No.: RBK-85-30

Weight: 489 lb. (222 kg)

Seal Kit Part No.: GSK-85-30

Extension	1	2	3	4	5	Number of Stages: 5	
Diameter (in./mm)	6.85 / 174	6.06 / 154	5.31 / 135	4.57 / 116	3.86 / 98		
Stroke (in./mm)	37.48 / 952	37.48 / 952	37.72 / 958	37.72 / 958	37.8 / 960		Total Stroke: 188.19 in. (4780 mm)
Thrust (ton/kN)	66.8 / 594.5	52.3 / 465.7	40.2 / 357.8	29.7 / 264.2	21.2 / 188.6		Thrust based on 3625 PSI (250 Bar)
Oil (gal/L)	6 / 22.6	4.7 / 17.7	3.6 / 13.7	2.7 / 10.1	1.9 / 7.2		Total Oil: 18.87 gal (71.41 L)

*** Critical Cylinder Force Fully Extended (Buckling): 39.3 ton / 350 kN based on 6670 PSI (460 Bar)

User responsibility: Incorrect selection or incorrect use of the here described component and its related items may cause death, personal injury and property damage. All the information here reported are intended for further investigation by users with technical knowledge. The user, as manufacturer of the completed machinery which will incorporate the here described components, is solely responsible for the final selection of the components. The user must carry out necessary research and tests on components to determine whether, by its design and construction, all performance, endurance, maintenance, safety and warning requirements are met. The user must assure the compliance of the completed machinery with all appropriate laws, directives, norms, industry standards. The normal application of telescopic cylinders is to lift up tipping bodies, loaded with different materials, and consequently discharge this material while the cylinder is being extended.

The cylinder has been designed to provide only a linear pushing force. The cylinder is not a structural member and must not be used as a stabilizer or be subject to side or pulling load. The cylinder will not prevent the dump body or trailer from rollover or lateral tilt. The body weight plus the max payload are the max tipping weight that can be raised by the cylinder. This value, calculated at the max pressure, is a rough indication of the tipping power of the cylinder and must be used as a first criteria for selection of the cylinder. The real tipping mass can only be calculated by the design engineer of the completed machinery, and must account for the geometry of the dump body, operating conditions and all reasonably foreseeable uses. **Never exceed maximum thrust.**

When selecting a hydraulic cylinder for replacement, it is the responsibility of the purchaser and installer/ user to verify that all dimensions, mounting, and performance features of the replacement cylinder are appropriate for the application.

Refer to www.munciepower.com for additional info on maintenance, service, general precautions, and warranty info. **Never exceed the herein specified limits of the cylinder.**

Cylinder rated pressure reflect only the capability of the pressure-containing envelope and not the force transmitting capability of mounting configurations. **Never exceed maximum pressure.**

The ordinary use of a telescopic cylinder will not require any coating since the stages are exposed to atmospheric agents only during the tip-up operation, if duration is below 2 hours. Surface coatings can be supplied on request. Muncie Power Products Inc. warranty does not apply to any kind of corrosion or coated or non-coated parts.

When closed, leave the tipping control in descent position. The exposed surface of the first moving stage may eventually rust due to exposure to the atmosphere, but this will not affect the functionality of the cylinder.

Maximum extension speed less than 1.64 ft/s (0.5 m/s).

Hydraulic oil temperature range allowable between -40° F to 212° F (-40° C to 100° C).

If the cylinder must be stored, store them in a dry place. Do not expose to rain. Do not store the cylinder for more than 6 (six) months.

User shall pay attention to stroke length, loading and cylinder mounting in order to avoid bending or buckling of the cylinder at any position.

Enamel RAL9005 two-component solvent semi-gloss finish 180 h spray test ISO 9227 rating 9 ISO 10289.

Chrome coating type CRN (40 h corrosion test ISO9227-rating 9 ISO10289 – minimum thickness 15 µm) on smallest, 3.86 in (98 mm) stage. Standard (not hard chromed) stages must not be extended for over 30 minutes. Read and understand mounting instructions, user manual, oil specifications and user responsibility before use

REMARKS

REVISIONS



Muncie®
Power
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A Member of the Interpump Group

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