

# TECHNICAL DATA



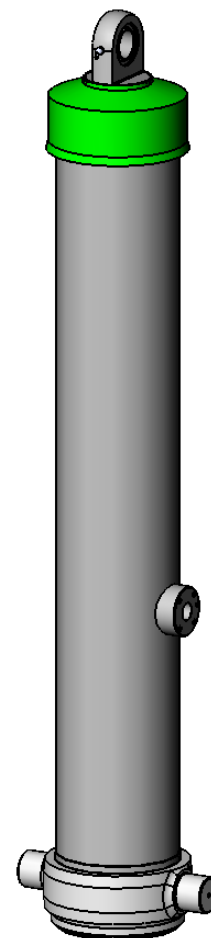
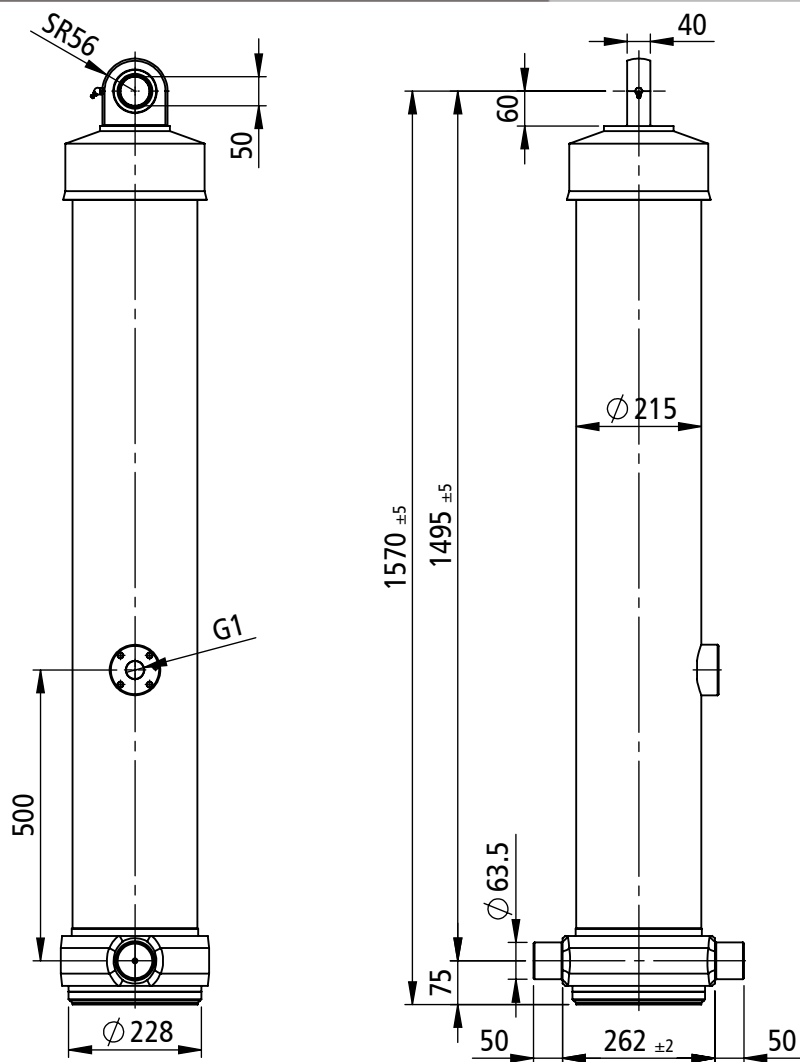
Front end cylinder, pins - eye (spherical bearing)

Part Number

4114301915009

Tipping weight

52-97 ton



mounting dimension 1495 mm + 20 (-5;+30) mm min pull out

total stroke 6150 mm

max pressure 200 bar

model: HF 6150 191 5

code: 4114301915009

weight: 283 kg

1222 000461

extension	1	2	3	4	5	-	-	-	-	--	--	number of stages: 5
diameter [mm]	191	169	149	129	111	--	--	--	--	--	--	
stroke [mm]	1220	1225	1230	1235	1240	--	--	--	--	--	--	total: 6150 mm
thrust [kN] at pmax	573	449	349	261	194	--	--	--	--	--	--	
oil [dm³]	34.9	27.5	21.4	16.1	12.0	--	--	--	--	--	--	total: 111.9 dm³

## TECHNICAL NOTES AND SPECIFICATIONS

**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 investigations by users with technical knowledge. The user, as manufacturer of the completed machinery which will incorporate the here described components, is the 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 cylinder is to lift up tipping bodies, loaded with different materials, and consequently discharge this material whilst the cylinder is extended all along its stroke.

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 the selection of the cylinder. The real tipping mass can only be calculated by the design engineer of the completed machinery, and must take into account the geometry of the dump body, operating conditions and all reasonably foreseeable uses.

Refer to [www.hspenta.it](http://www.hspenta.it) for mounting instructions, bracket details, hydraulic oil specification, user & maintenance, service, general precautions, general guarantee conditions.

**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.

The ordinary use of telescopic cylinder will not require any coating since the telescopic 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. H.S.PENTA warranty does not apply to any kind of corrosion of coated or non-coated parts.

When closed, leave the tipping control in descent position. The exposed surface of first moving stage may get rusty, but it will not affect the functionality of the cylinder.

Maximum extension speed less than 0.5 m/s.

Hydraulic oil temperature admitted between -40°C and +100°C.

In case the cylinders must be stored, do not remove the package. Store them in a dry place, not exposed to rain. Do not store the cylinders for more than 6 months.

Critical buckling load 320 kN fully extended cylinder. User shall pay attention to stroke length, loading and cylinder mounting in order to avoid bending or buckling of the cylinder at any position.

Chrome coating type CRN (40 h corrosion test ISO9227-rating 9 ISO10289 - minimum thickness 15 µm) on rod stage Ø111.

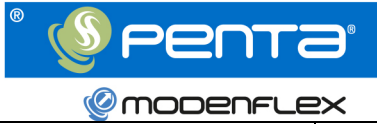
### REMARKS

[2015.02.25] [2015.09.11]

### REVISIONS

01

02



## BILL OF MATERIALS

4114301915009

FRONT MOUNT RAM HF6150 191 5

Code	Description	Quantity
BD0060001	PLASTIC CAP FOR PINS 60	2,00
BD0196001	PROTECTION CAP PF 196	1,00
B114301910006	RAM TUBE HF191 1430 L= 1445 75	1,00
B214301290001	STAGE HF129 1430 1420	1,00
B214301490001	STAGE HF149 1430 1415	1,00
B214301690001	STAGE HF169 1430 1410	1,00
B214301910001	STAGE HF191 1430 L= 1405	1,00
B314301110002	END STAGE HF111 1430 M100X2.5 F L= 1425	1,00
B40191001	BASE RAM PI. 191	1,00
B50111001	TOP HEAD AVV. 111 SN. SF. Ø 50	1,00
B701490050002	STOP RING HF149 Ø134X5 INNER	1,00
B701690050002	STOP RING HF169 Ø154X5 INNER	1,00
B701910050001	STOP RING HF191 Ø175X5 INNER	1,00
B711110050001	BASE RAM STOP RING HF111 Ø117X5 INNER	1,00
B711910080001	BASE RAM STOP RING HF191 Ø198X8 INNER	1,00
D5G100M01P002	PLUG G1 PLASTIC MALE TCP	1,00
D5M010F03P001	GREASE NIPPLE PLUG	1,00
D608M0010G004	GRUB SCREW M10X12 UNI5927	1,00
D620000751	SEEGER I/75	1,00
D623100101	GREASE NIPPLE M10X1 45°	1,00
D624000501	SFERICAL BEARING 50 GE 50 ES	1,00
K141001915001	GUIDE KIT HF 191 5	1,00
K241001915002	SEAL KIT HF 191 5SAC2	1,00