



BALTROTORS®

quality
reliability
innovation

CUSTOMER
HANDBOOK 2015

PRODUCTS

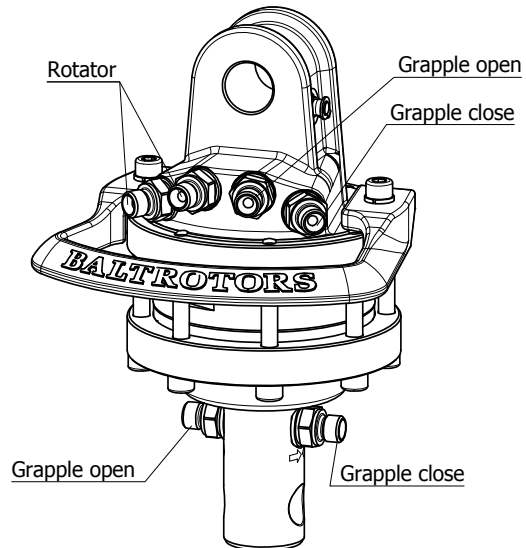
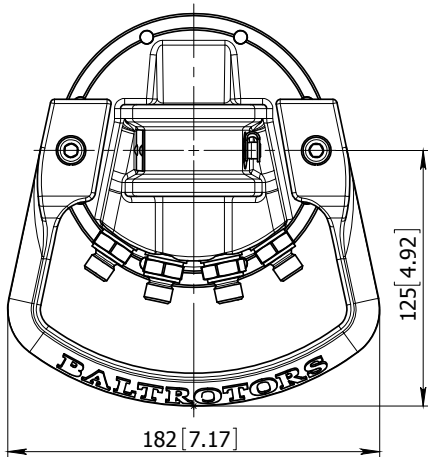
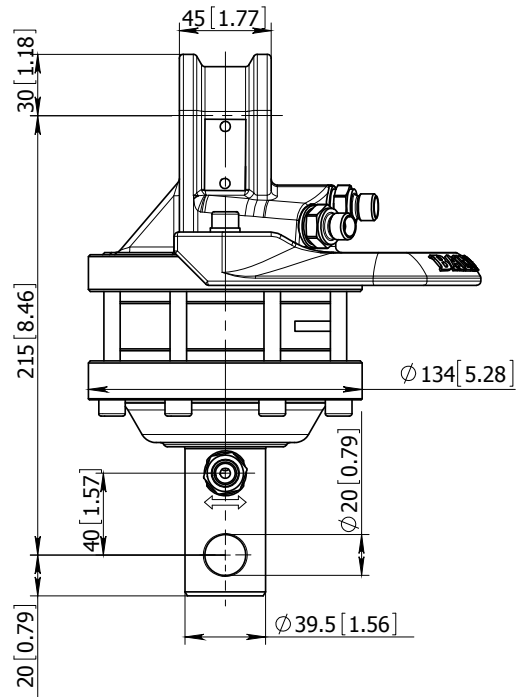
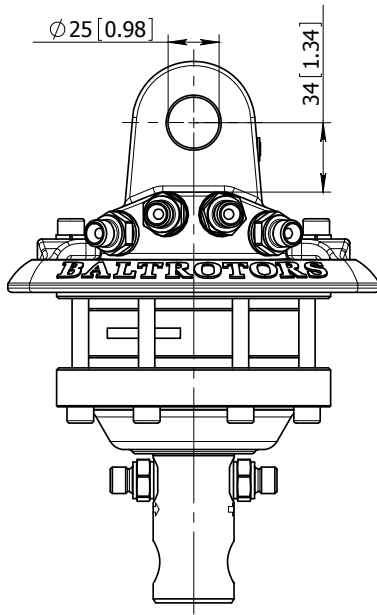


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ROTATOR GR10



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	10 (2250)
Max axial load dynamic, KN (lbf)	5 (1125)
Torque at 25Mpa (3625psi), Nm (lb ft)	350 (258)
Rec oilflow, l/min (US gallon)	10 (2.6)
Weight, kg (lb)	10 (22)

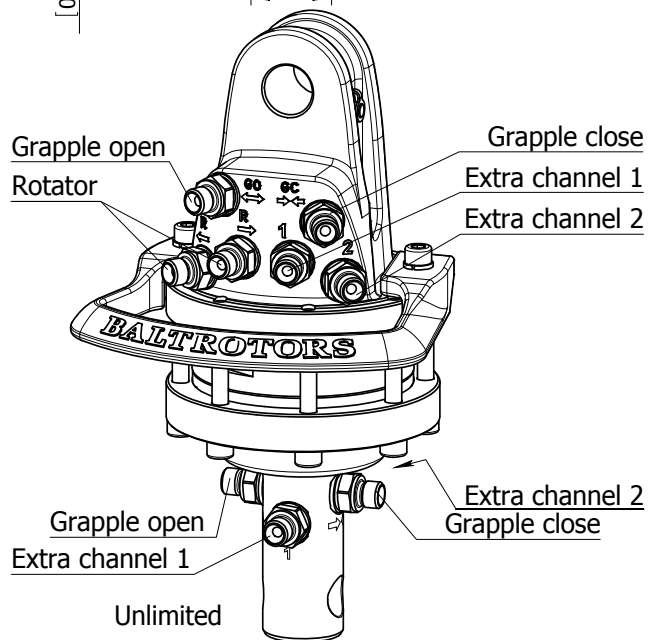
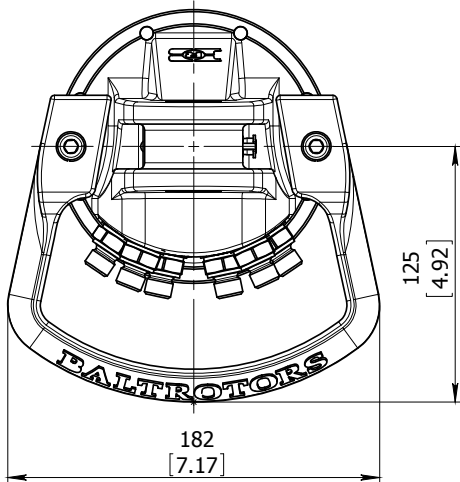
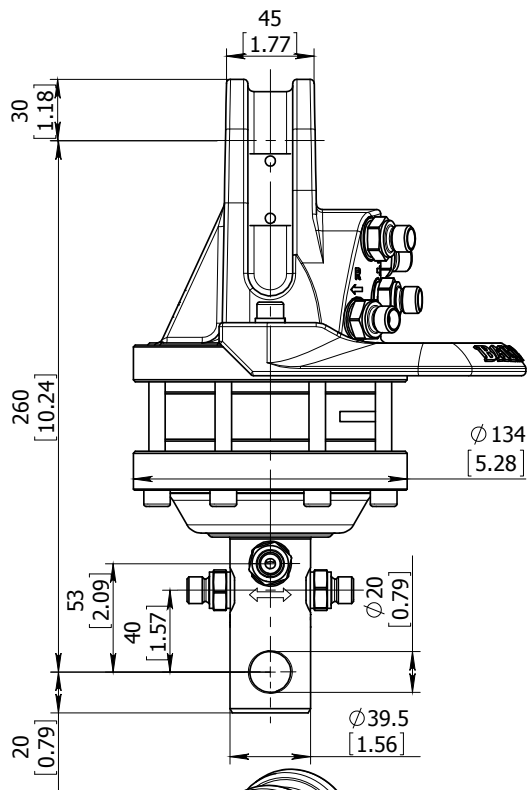
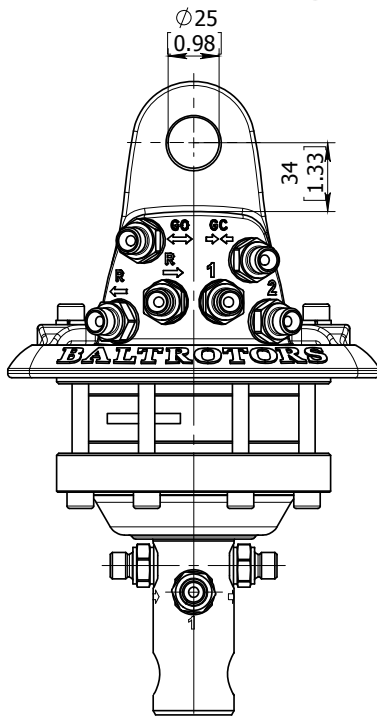
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)

Connection:

G 1/4"
G 1/4"
G 1/4"

ROTATOR GR10-02



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	10 (2250)
Max axial load dynamic, KN (lbf)	5 (1125)
Torque at 25Mpa (3625psi), Nm (lb ft)	350 (258)
Rec oilflow, l/min (US gallon)	10 (2.6)
Weight, kg (lb)	12 (26)

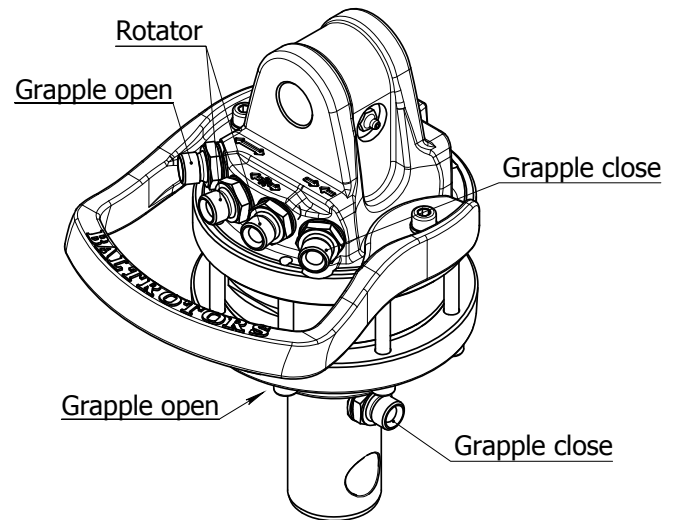
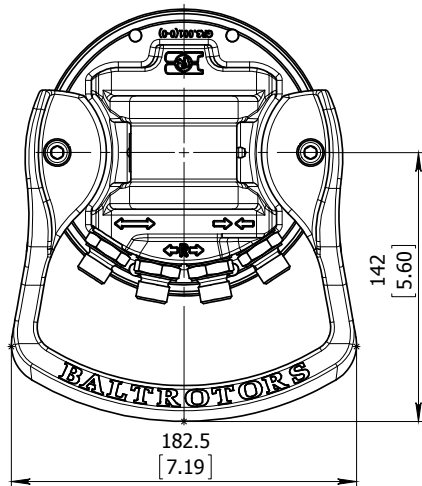
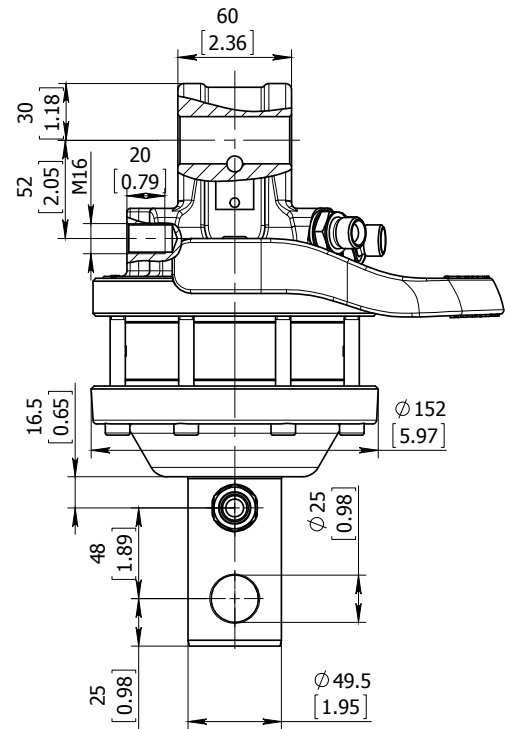
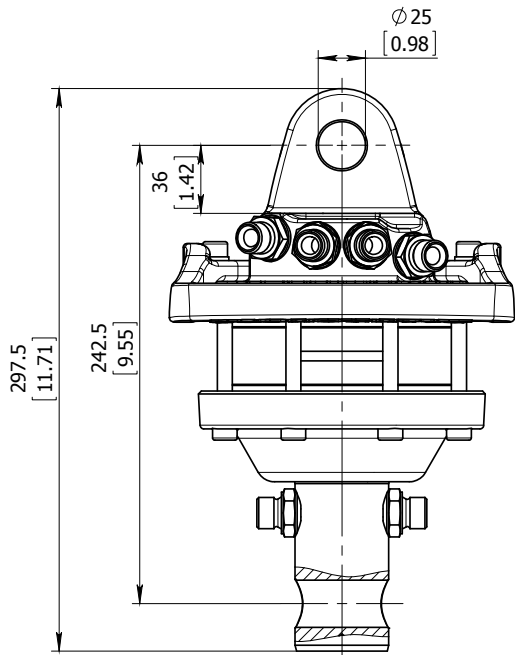
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	G 1/4"
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)	G 1/4"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/4"
Extra oil function	1 2	Max 30 MPa (4350 psi)	G 1/4"

Connection:

G 1/4"
G 1/4"
G 1/4"
G 1/4"

ROTATOR GR3



Technical data

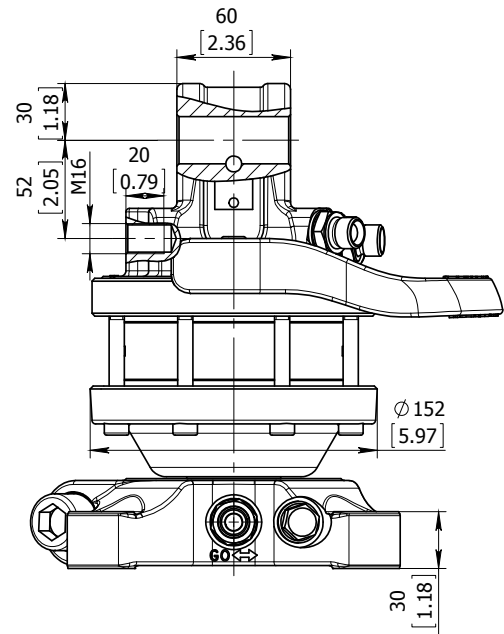
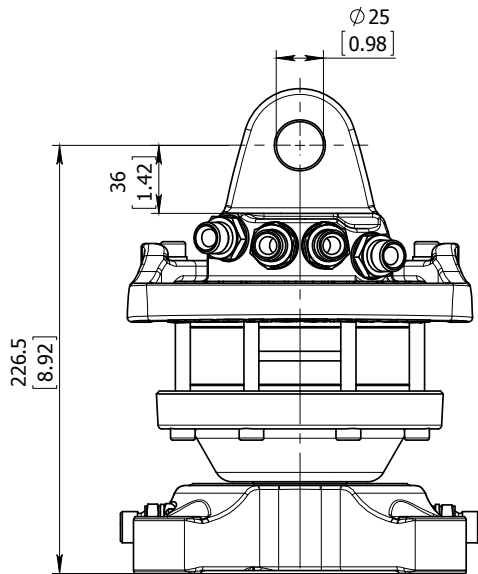
Rotation	Unlimited
Max axial load static, KN (lbf)	30 (6745)
Max axial load dynamic, KN (lbf)	15 (3372)
Torque at 25Mpa (3625psi), Nm (lb ft)	800 (590)
Rec oilflow, l/min (US gallon)	20 (5.3)
Weight, kg (lb)	15

Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	G 3/8"
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)	G 3/8"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 3/8"

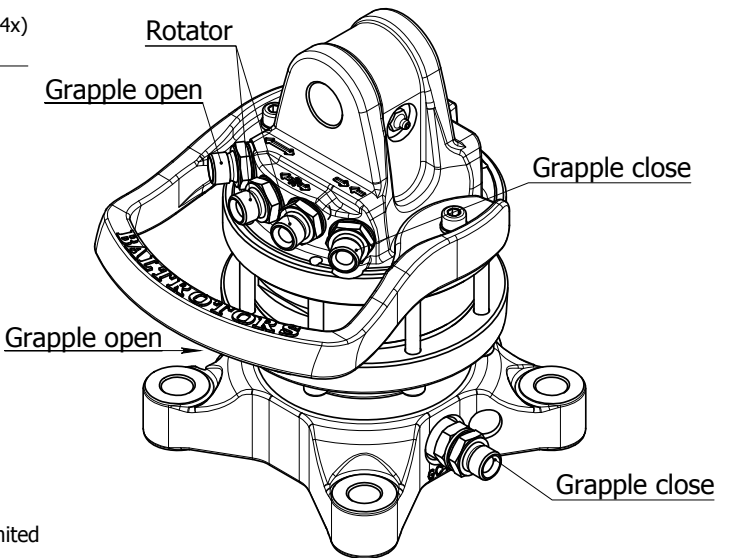
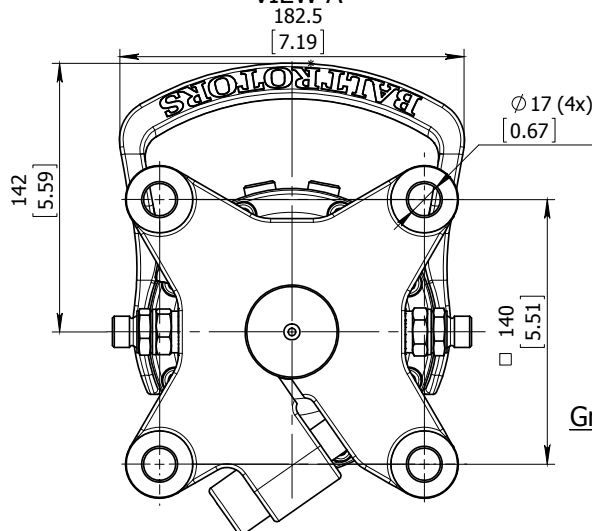
Connection:

ROTATOR GR3PF



A

VIEW A



Technical data

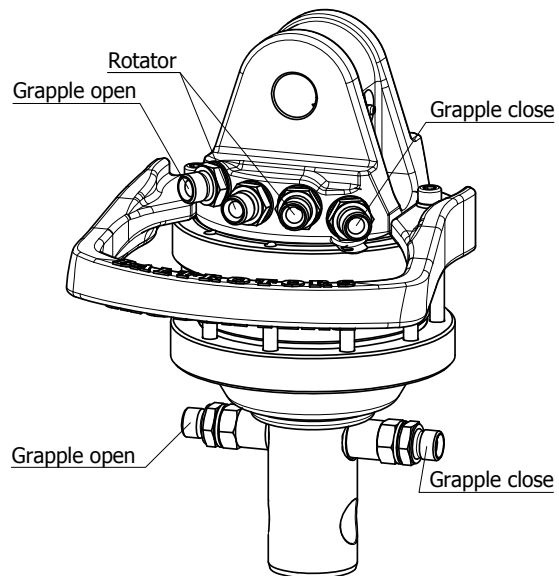
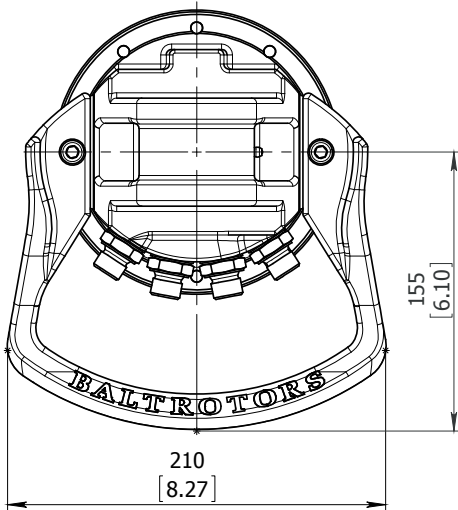
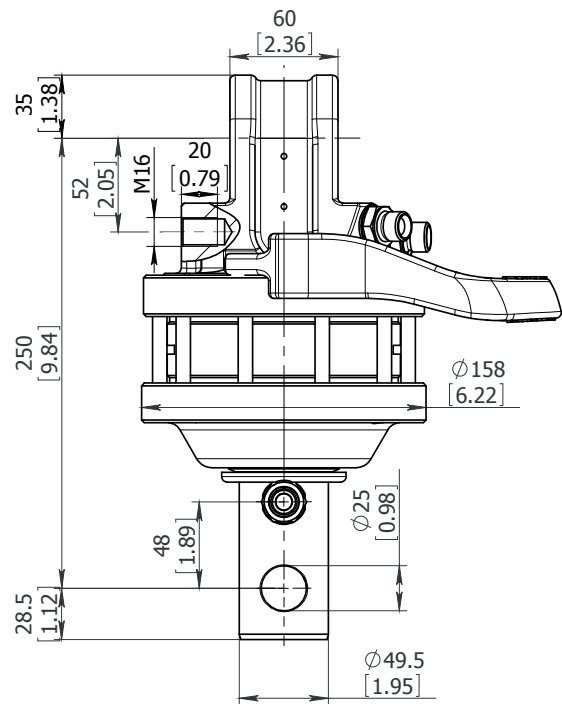
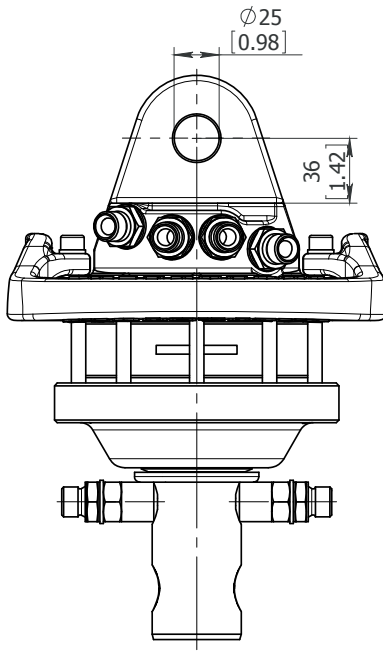
Rotation	Unlimited
Max axial load static, KN (lbf)	30 (6745)
Max axial load dynamic, KN (lbf)	15 (3372)
Torque at 25Mpa (3625psi), Nm (lb ft)	800 (590)
Rec oilflow, l/min (US gallon)	20 (5.3)
Weight, kg (lb)	20.5 (45)

Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	G 3/8"
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)	G 3/8"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 3/8"

Connection:

ROTATOR GR 30



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	30 (6745)
Max axial load dynamic, KN (lbf)	15 (3372)
Torque at 25Mpa (3625psi), Nm (lb ft)	900 (664)
Rec oilflow, l/min (US gallon)	20 (5.3)
Weight, kg (lb)	18 (39)

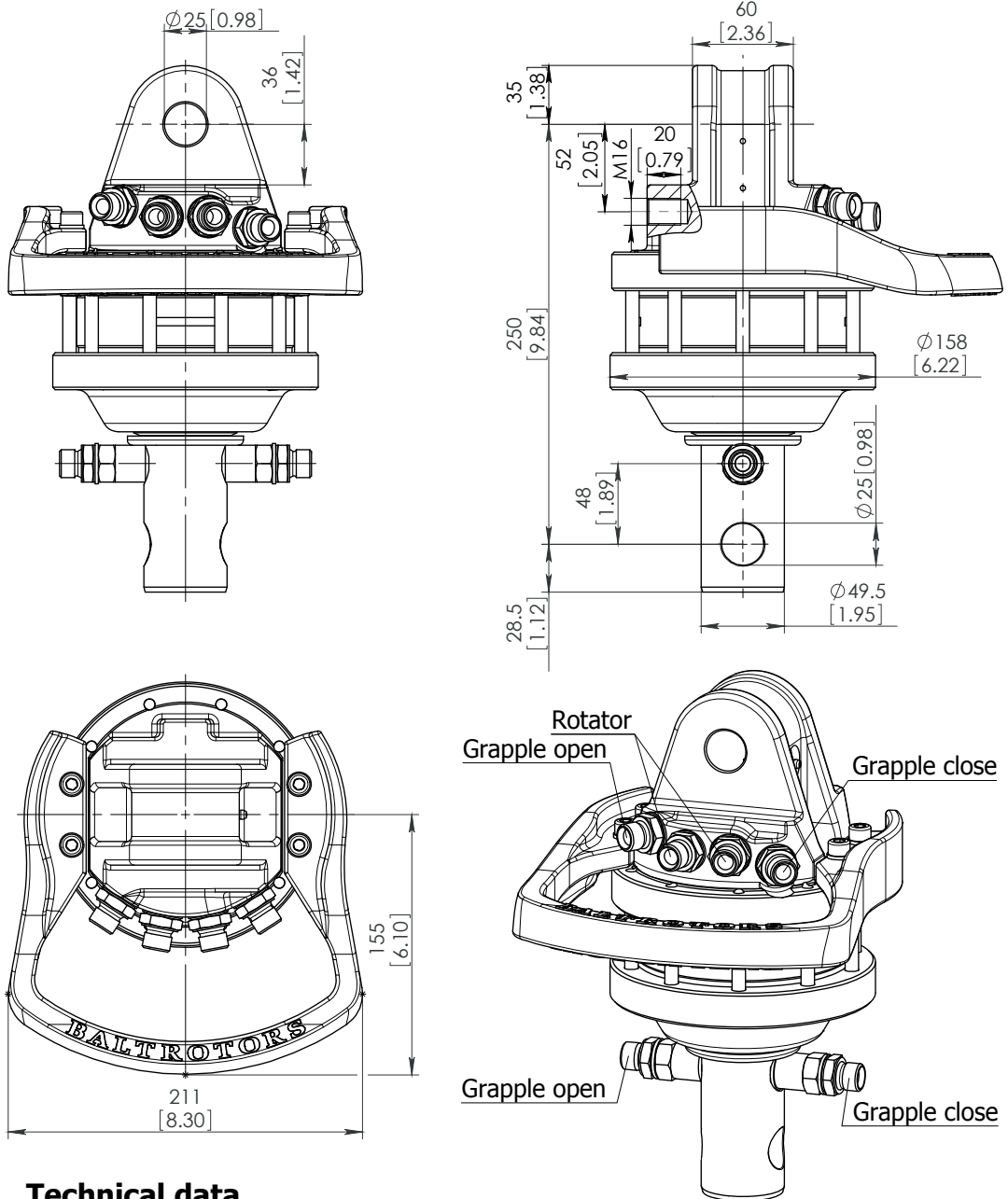
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)

Connection:

G 3/8"
G 3/8"
G 3/8"

ROTATOR GR30-01



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	30 (6745)
Max axial load dynamic, KN (lbf)	15 (3372)
Torque at 25Mpa (3625psi), Nm (lb ft)	900 (664)
Rec oilflow, l/min (US gallon)	20 (5.3)
Weight, kg (lb)	19 (41)

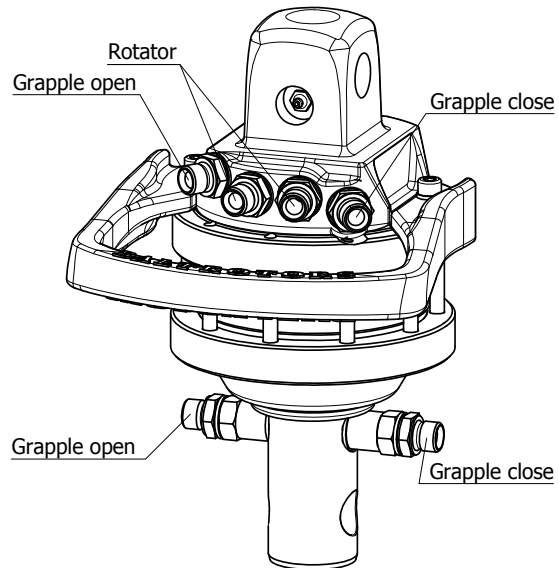
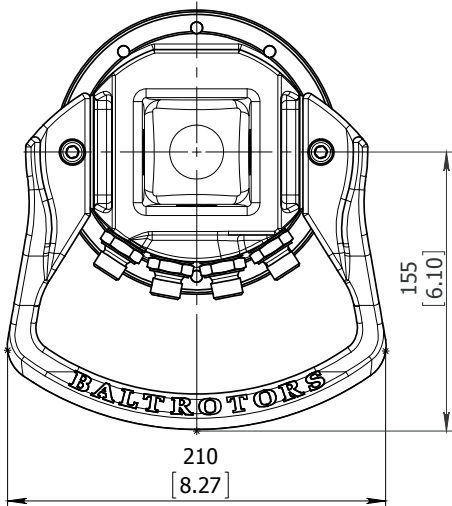
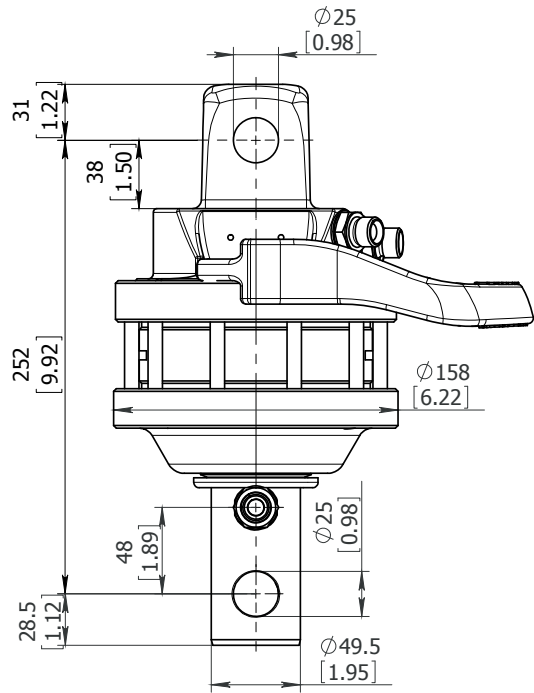
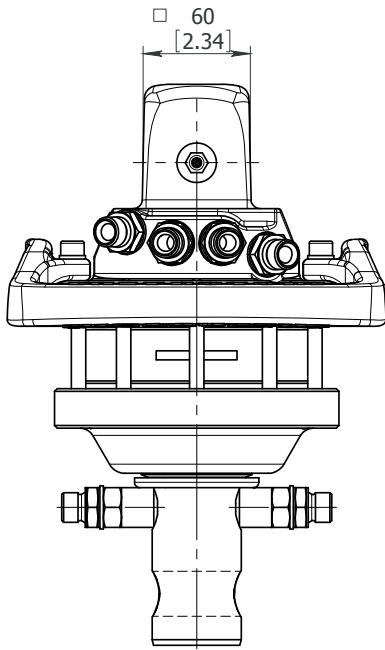
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)

Connection:

G 3/8"
G 3/8"
G 3/8"

ROTATOR GR30A



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	30 (6745)
Max axial load dynamic, KN (lbf)	15 (3372)
Torque at 25Mpa (3625psi), Nm (lb ft)	900 (664)
Rec oilflow, l/min (US gallon)	20 (5.3)
Weight, kg (lb)	18 (39)

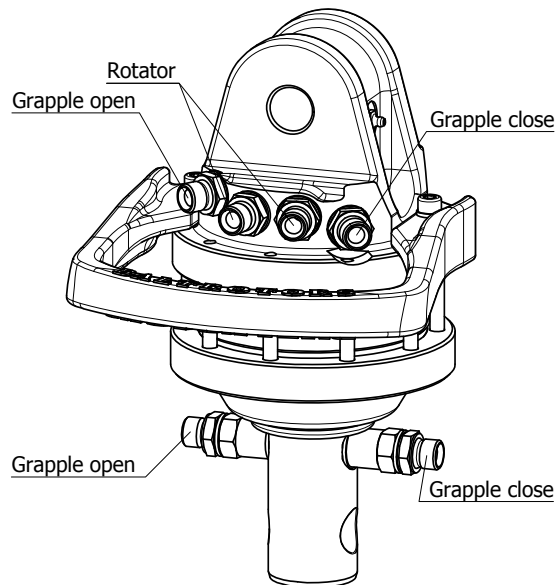
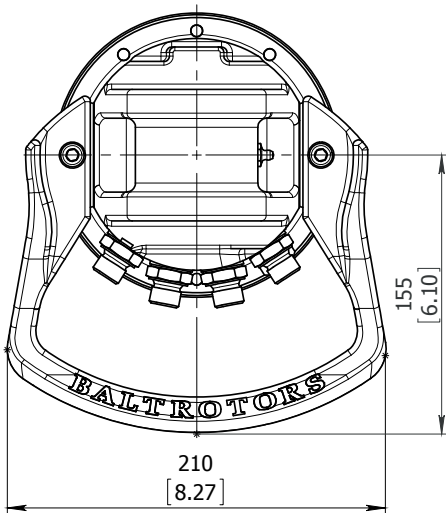
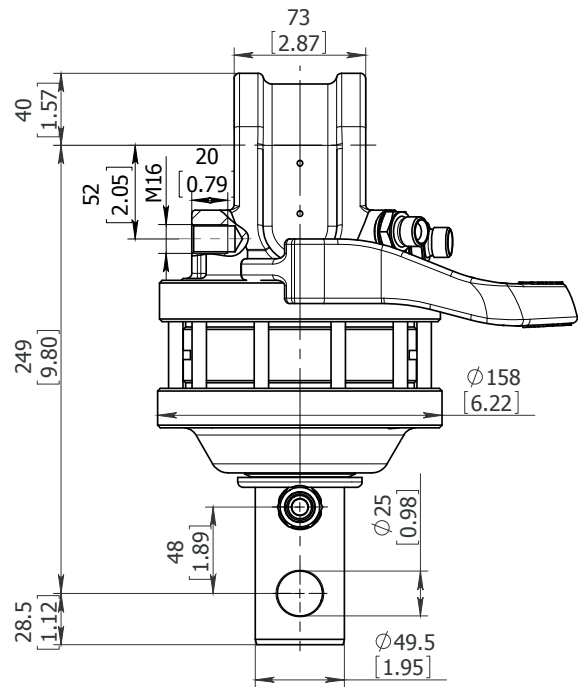
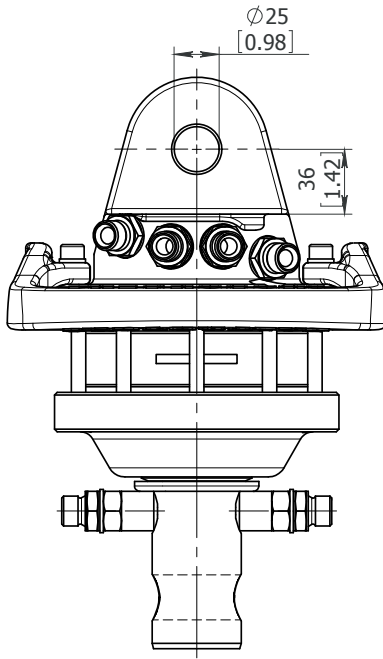
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)

Connection:

G 3/8"
G 3/8"
G 3/8"

ROTATOR GR30B



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	30 (6745)
Max axial load dynamic, KN (lbf)	15 (3372)
Torque at 25Mpa (3625psi), Nm (lb ft)	900 (664)
Rec oilflow, l/min (US gallon)	20 (5.3)
Weight, kg (lb)	18 (39)

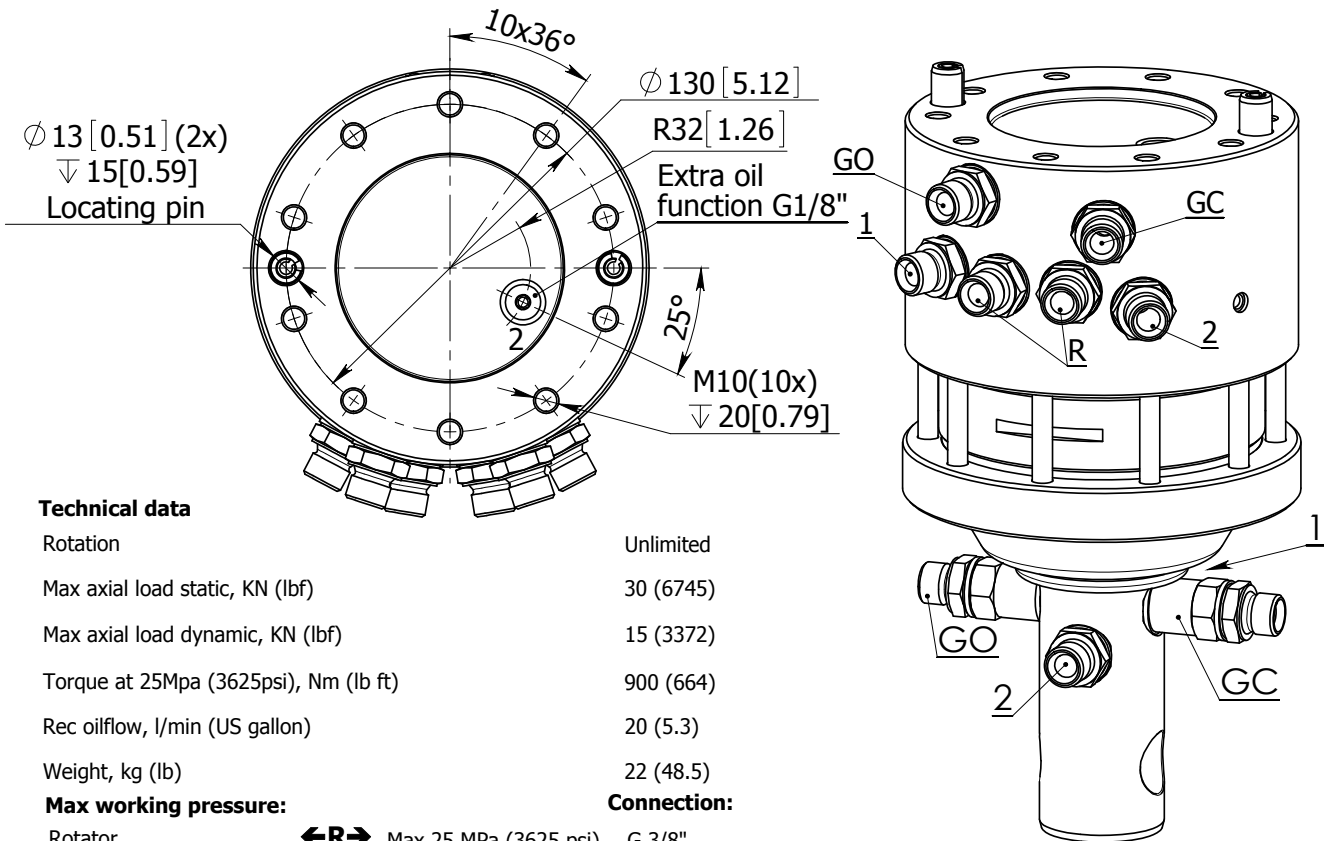
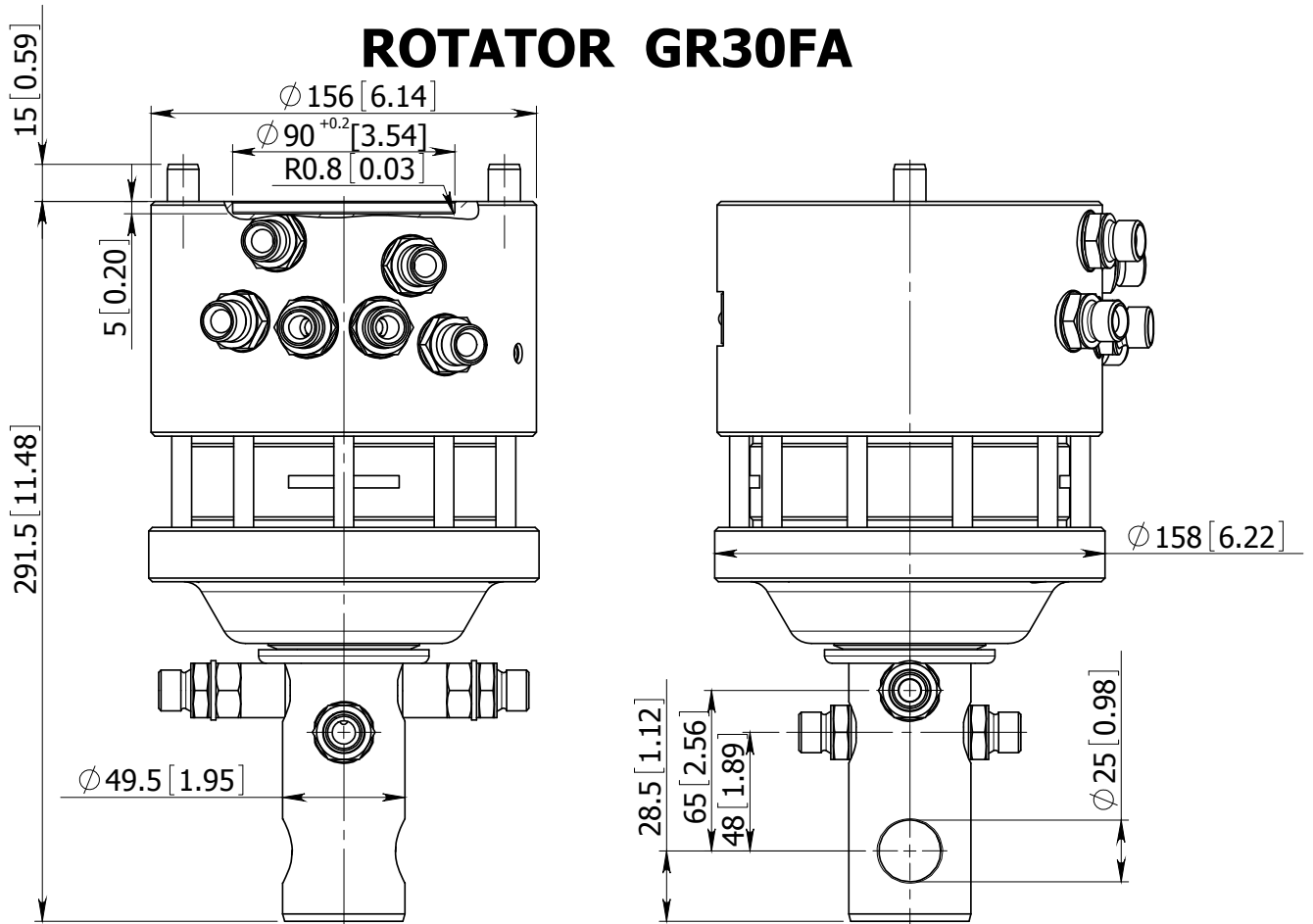
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)

Connection:

G 3/8"
G 3/8"
G 3/8"

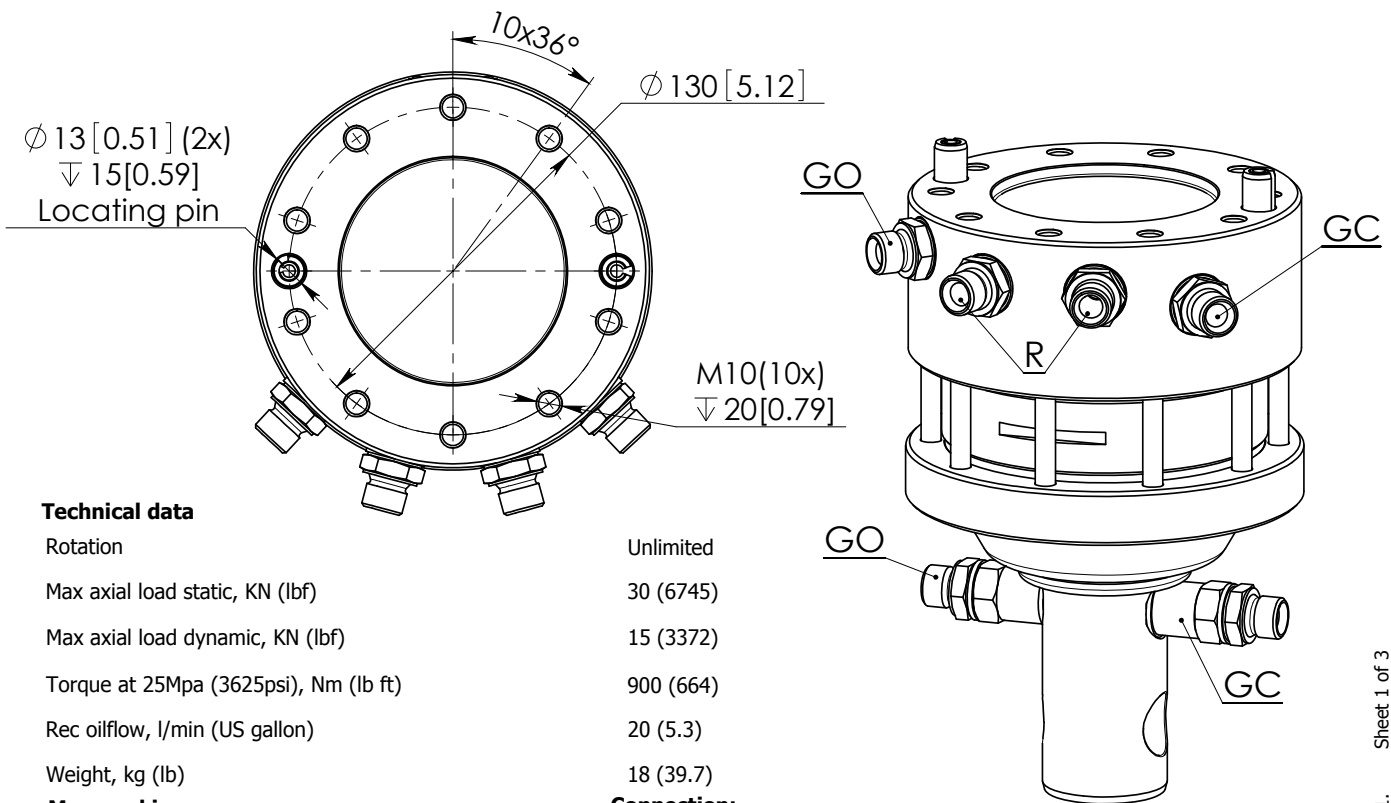
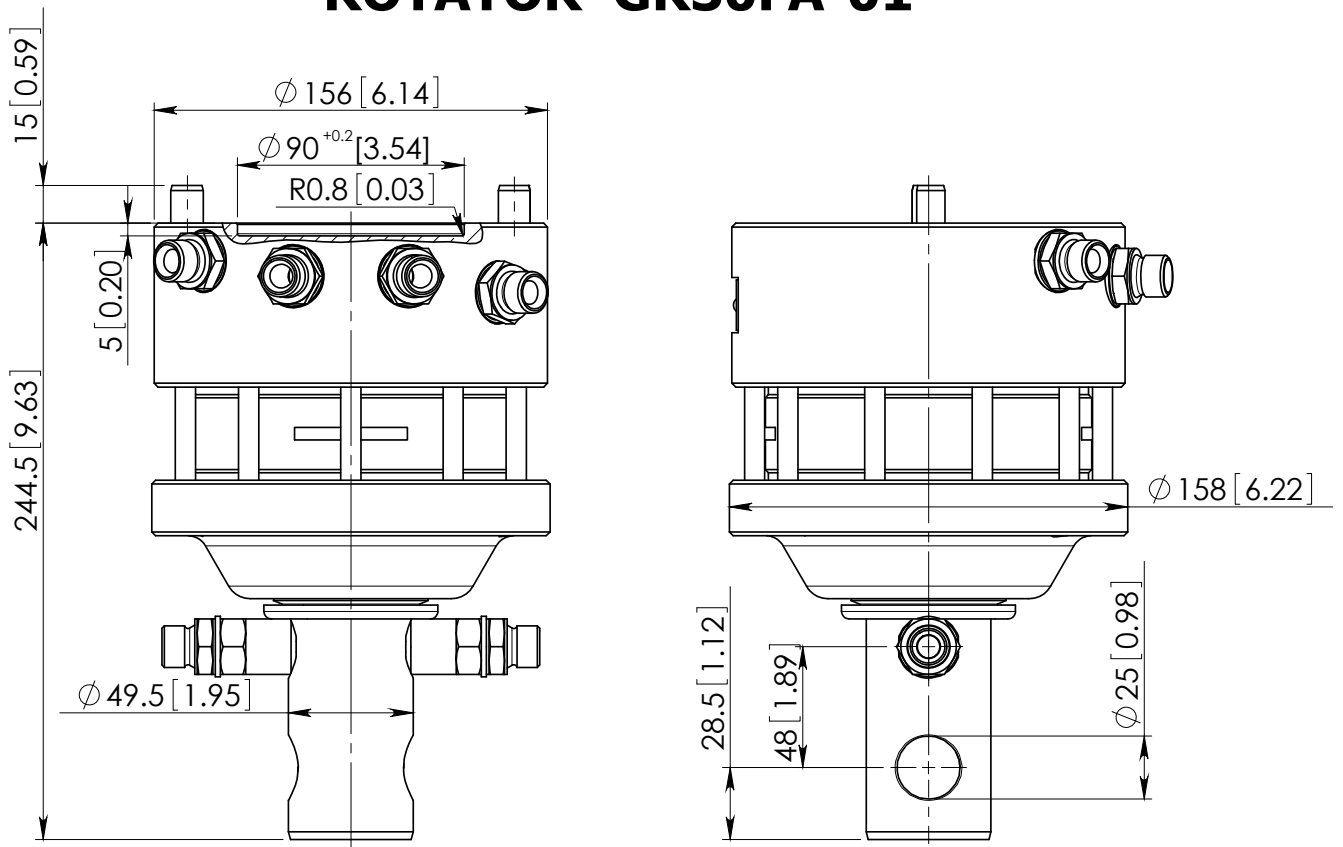
ROTATOR GR30FA



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	30 (6745)
Max axial load dynamic, KN (lbf)	15 (3372)
Torque at 25Mpa (3625psi), Nm (lb ft)	900 (664)
Rec oilflow, l/min (US gallon)	20 (5.3)
Weight, kg (lb)	22 (48.5)
Max working pressure:	Connection:
Rotator $\leftarrow R \rightarrow$	Max 25 MPa (3625 psi) G 3/8"
Grapple / Tool open $\leftarrow G \rightarrow$	Max 20 MPa (2900 psi) G 3/8"
Grapple / Tool close $\rightarrow G \leftarrow$	Max 30 MPa (4350 psi) G 3/8"
Extra oil function $\boxed{1} \boxed{2}$	Max 30 MPa (4350 psi) G 3/8"

ROTATOR GR30FA-01



Technical data

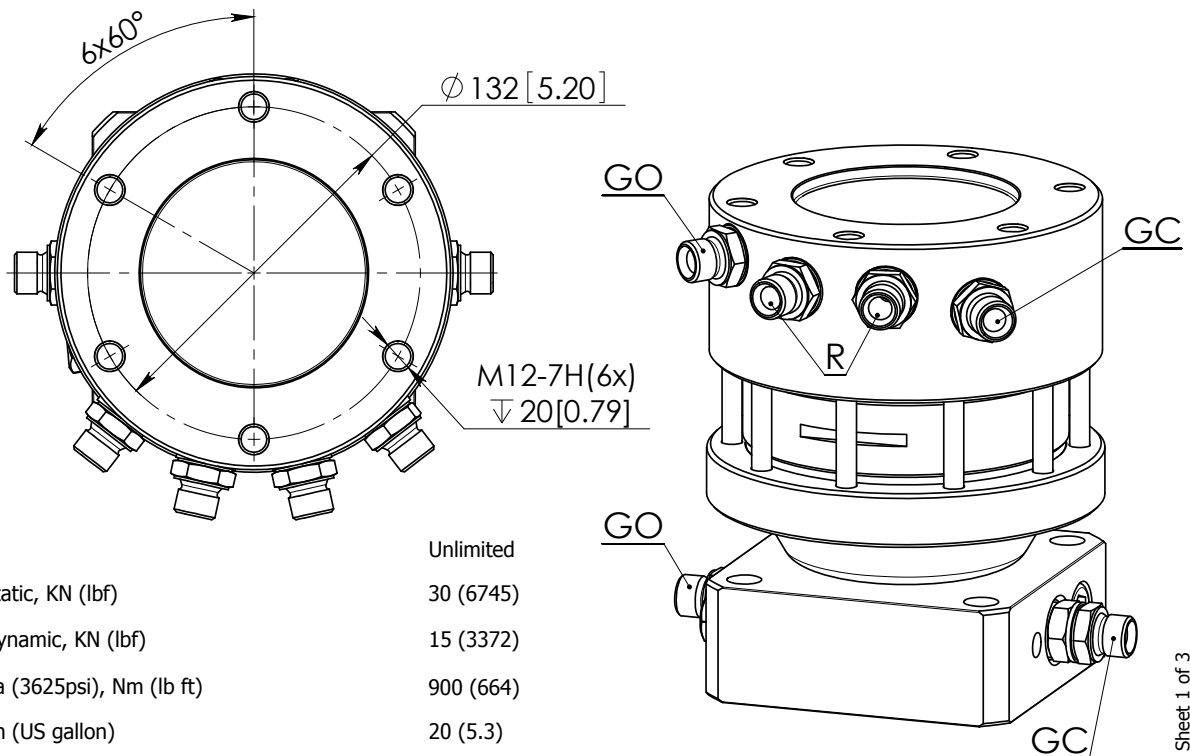
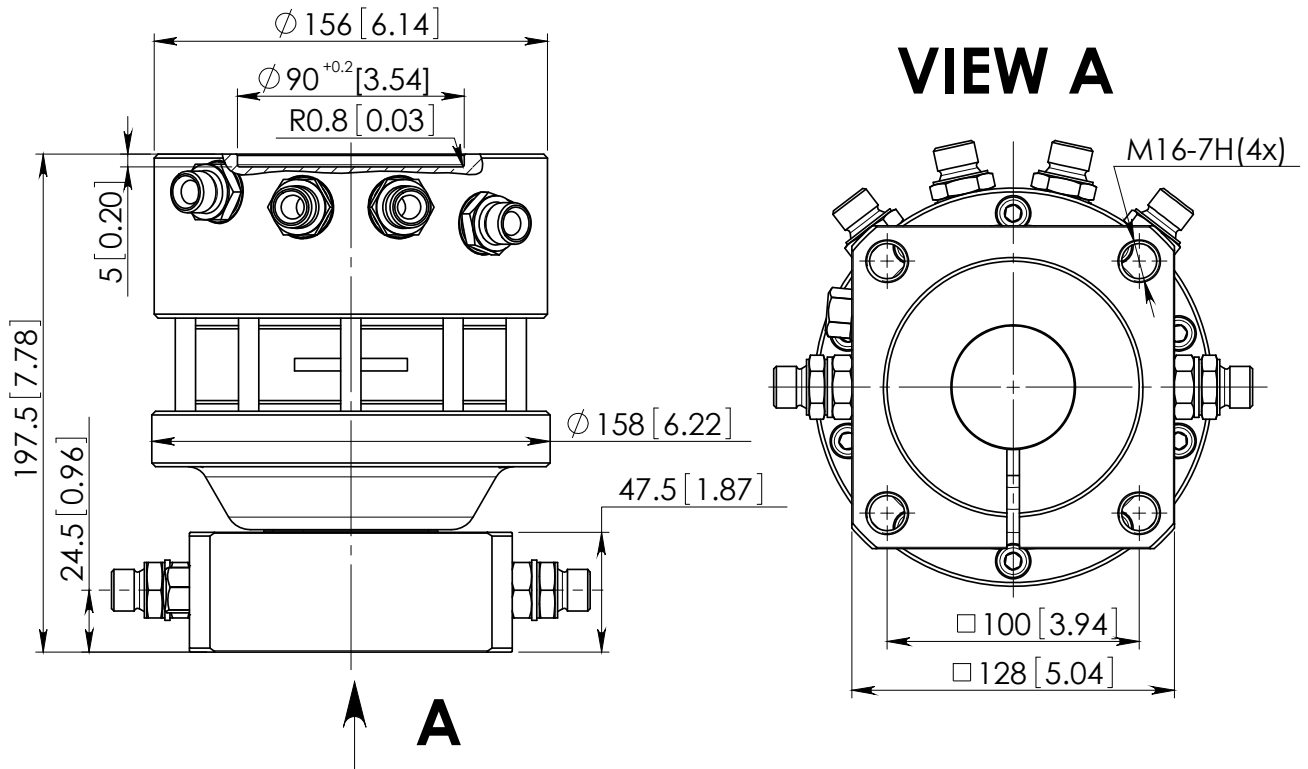
Rotation	Unlimited
Max axial load static, KN (lbf)	30 (6745)
Max axial load dynamic, KN (lbf)	15 (3372)
Torque at 25Mpa (3625psi), Nm (lb ft)	900 (664)
Rec oilflow, l/min (US gallon)	20 (5.3)
Weight, kg (lb)	18 (39.7)

Max working pressure:

Connection:

Rotator	$\leftarrow R \rightarrow$ Max 25 MPa (3625 psi)	G 3/8"
Grapple / Tool open	$\leftarrow G \rightarrow$ Max 20 MPa (2900 psi)	G 3/8"
Grapple / Tool close	$\rightarrow G \leftarrow$ Max 30 MPa (4350 psi)	G 3/8"

ROTATOR GR30FF



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	30 (6745)
Max axial load dynamic, KN (lbf)	15 (3372)
Torque at 25Mpa (3625psi), Nm (lb ft)	900 (664)
Rec oilflow, l/min (US gallon)	20 (5.3)
Weight, kg (lb)	22 (48.5)

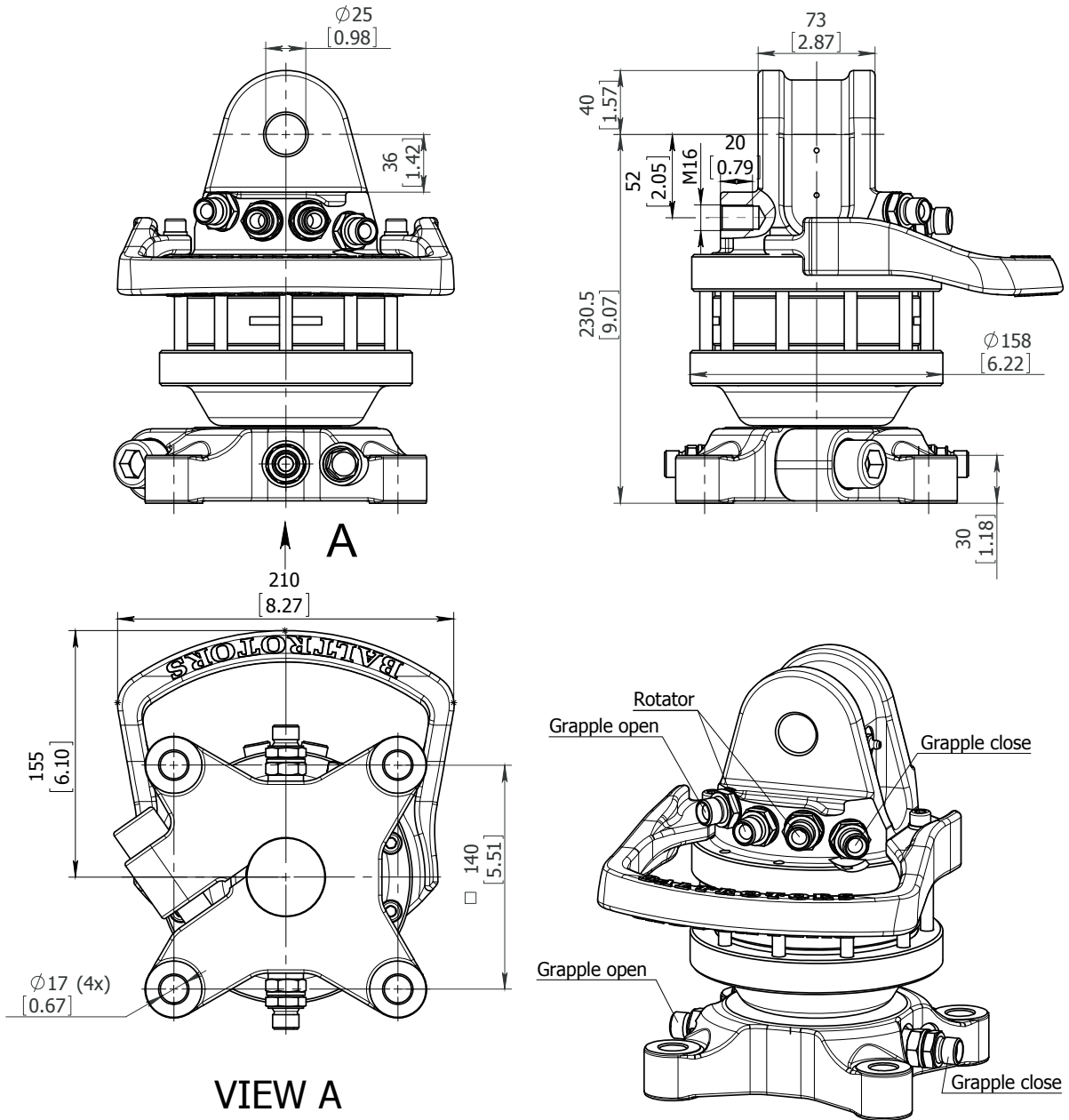
Max working pressure:

Connection:

Rotator	$\leftarrow R \rightarrow$	Max 25 MPa (3625 psi)	G 3/8"
Grapple / Tool open	$\leftarrow G \rightarrow$	Max 20 MPa (2900 psi)	G 3/8"
Grapple / Tool close	$\rightarrow G \leftarrow$	Max 30 MPa (4350 psi)	G 3/8"

Sheet 1 of 3
2013.08.21.

ROTATOR GR30PF



VIEW A

Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	30 (6745)
Max axial load dynamic, KN (lbf)	15 (3372)
Torque at 25Mpa (3625psi), Nm (lb ft)	900 (664)
Rec oilflow, l/min (US gallon)	20 (5.3)
Weight, kg (lb)	24 (53)

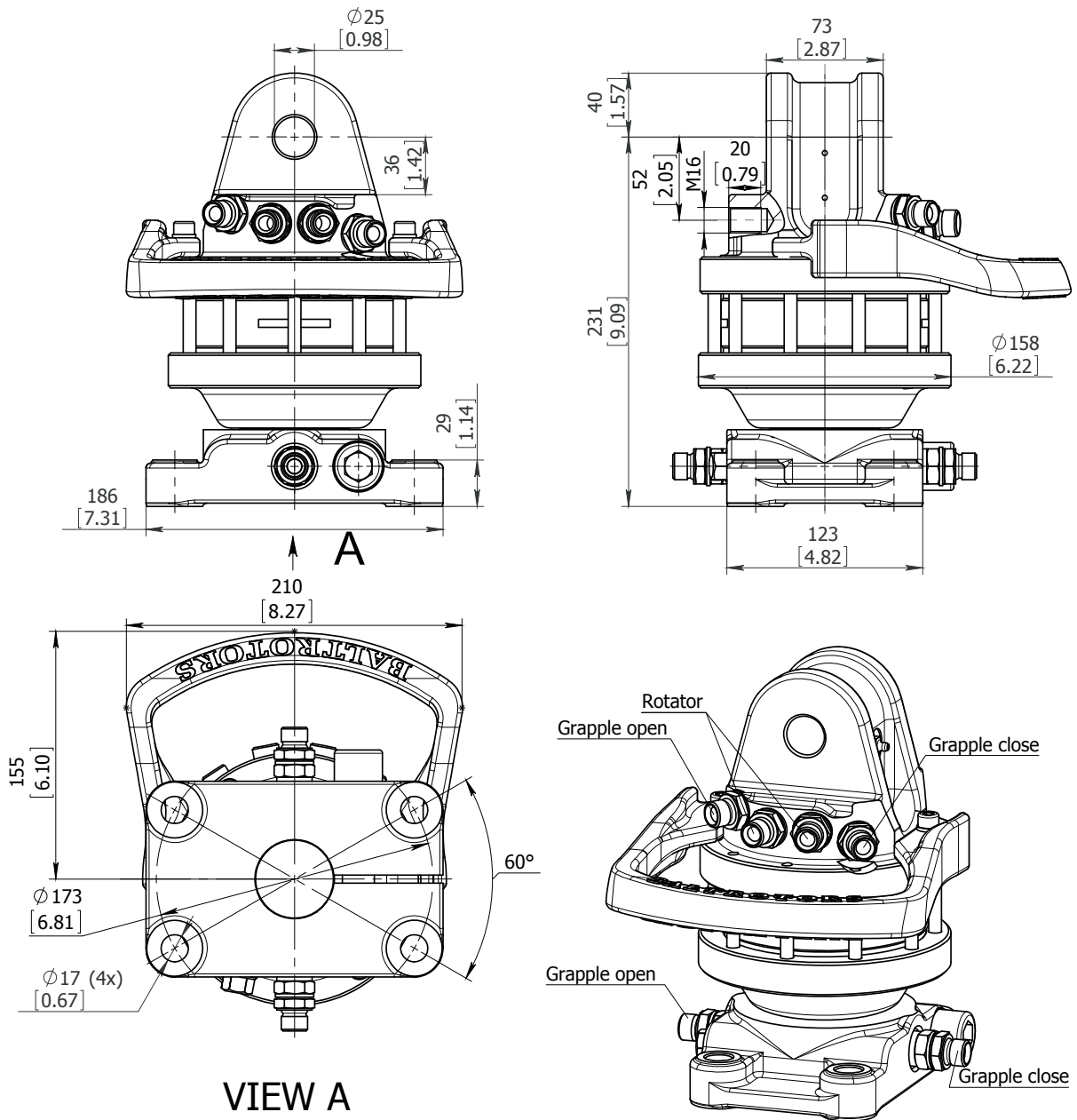
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)

Connection:

G 3/8"
G 3/8"
G 3/8"

ROTATOR GR30PFR



VIEW A

Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	30 (6745)
Max axial load dynamic, KN (lbf)	15 (3372)
Torque at 25Mpa (3625psi), Nm (lb ft)	900 (664)
Rec oilflow, l/min (US gallon)	20 (5.3)
Weight, kg (lb)	23 (50)

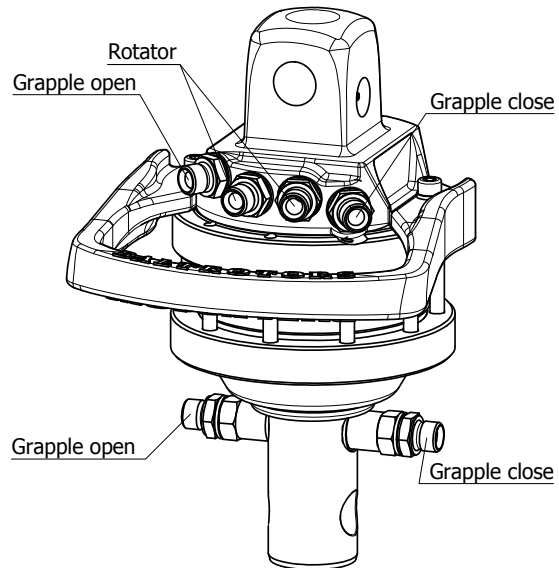
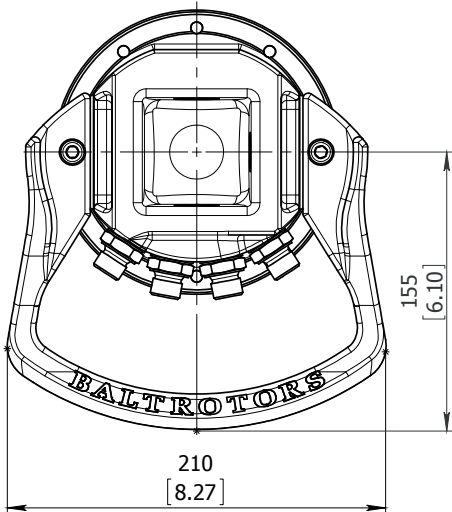
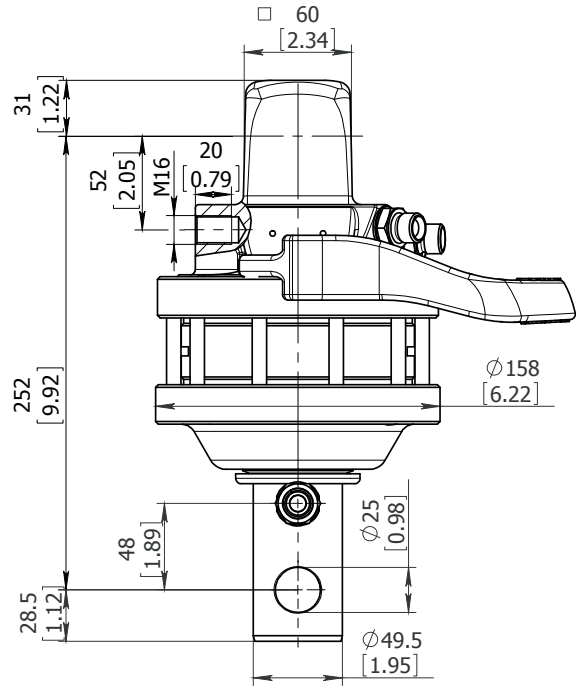
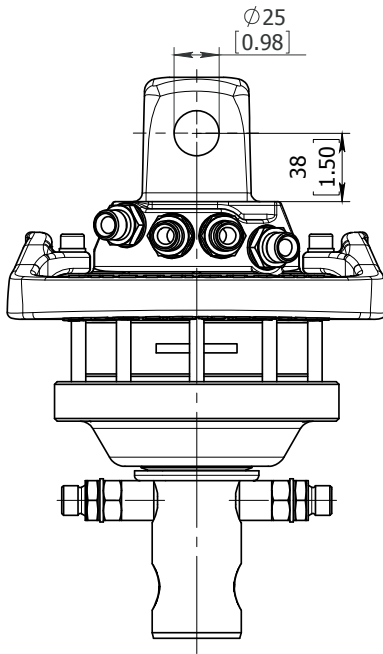
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)

Connection:

G 3/8"
G 3/8"
G 3/8"

ROTATOR GR30Q



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	30 (6745)
Max axial load dynamic, KN (lbf)	15 (3372)
Torque at 25Mpa (3625psi), Nm (lb ft)	900 (664)
Rec oilflow, l/min (US gallon)	20 (5.3)
Weight, kg (lb)	18 (39)

Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)

Connection:

G 3/8"
G 3/8"
G 3/8"

Hydraulic rotator

A1.0409



Recomend with links and swing dampers:

BR1 and BR4



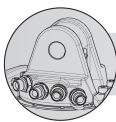
Without brakes

BR10 and BR40

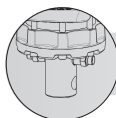


With single brake

2 years waranty



L73mm / PIN Ø25mm



Ø59mm / PIN Ø30mm

45 kN

1100 Nm at 25MPa

25 kN

23 kg

25 MPa

3/8"

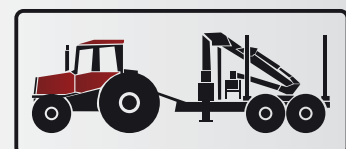
20 MPa

3/8"

30 MPa

3/8"

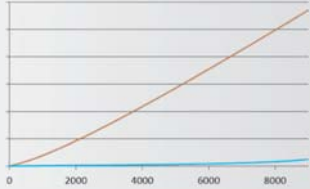
best for:



Since 2015 third quarter all Baltrotors 4t series rotators are performed in new, improved design.

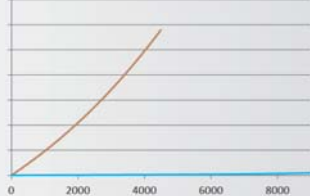
A1.0409 dimensions mm [inch]

less wearing of the chamber



GR46 (2014 model)
GR46 advanced performance (2015 model)

less wearing of the internal bushing

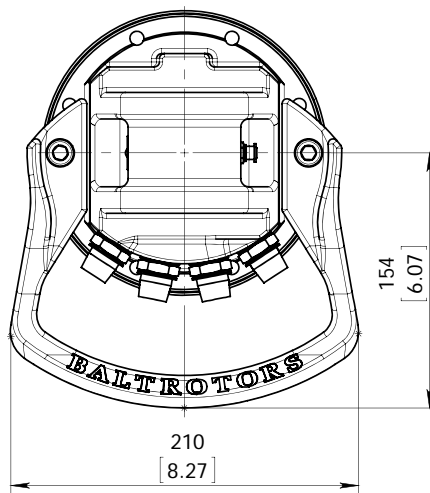
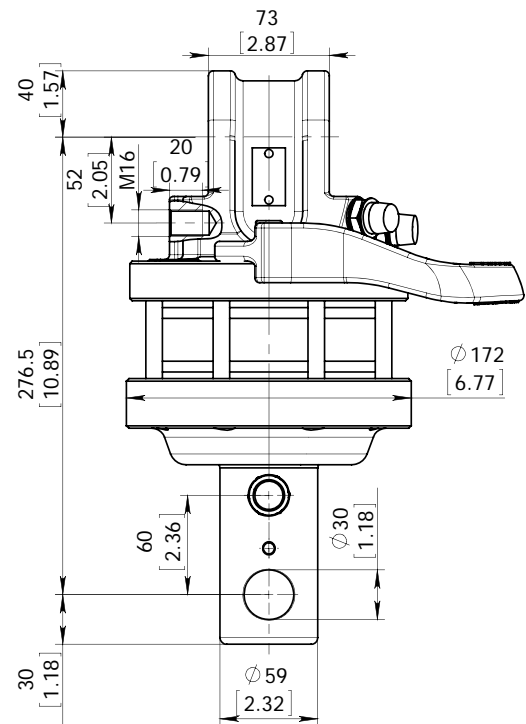
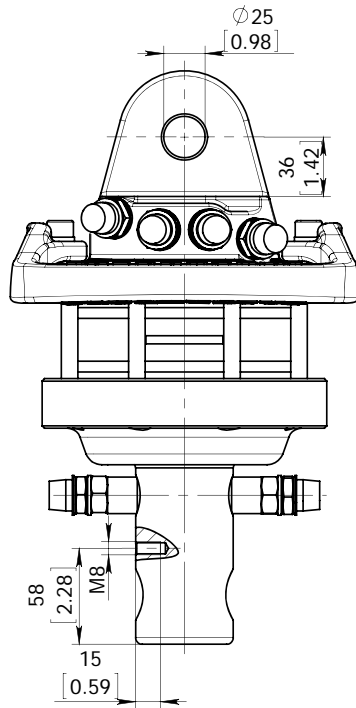


GR46 (2014 model)
GR46 advanced performance (2015 model)

less wearing
less spare parts
by
the same torque
the same quality
for
the same money
is
more durability
more efficiency



GR4series
advanced performance



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	45 (10118)
Max axial load dynamic, KN (lbf)	25 (5621)
Torque at 25Mpa (3625psi), Nm (lb ft)	1100 (811)
Rec oilflow, l/min (US gallon)	20 (5.3)
Weight, kg (lb)	24 (53)

Max working pressure:

Connection:

Rotator	←R→	Max 25 MPa (3625 psi)	G 3/8
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)	G 3/8
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 3/8

Hydraulic rotator

A1.0410



Recomend with links and swing dampers:

BR1 and BR4



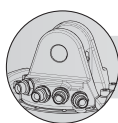
Without brakes

BR10 and BR40

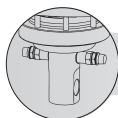


With single brake

2 years waranty



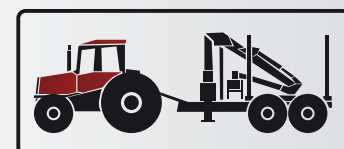
L73mm / PIN Ø25mm



Ø59mm level 50mm / PIN Ø30mm

	45 kN		1100 Nm at 25MPa
	25 kN		23 kg
	25 MPa		3/8"
	20 MPa		3/8"
	30 MPa		3/8"

best for:

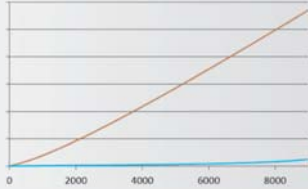


Since 2015 third quarter all Baltrotors 4t series rotators are performed in new, improved design.

A1.0410

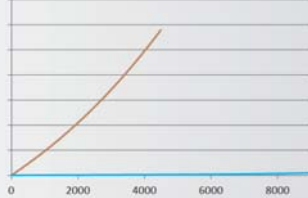
dimensions mm [inch]

less wearing of the chamber



GR46 (2014 model)
GR46 advanced performance (2015 model)

less wearing of the internal bushing

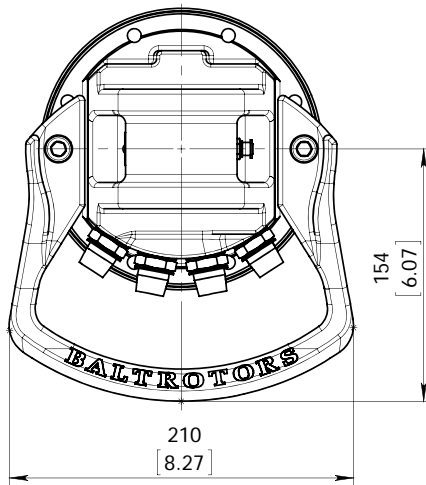
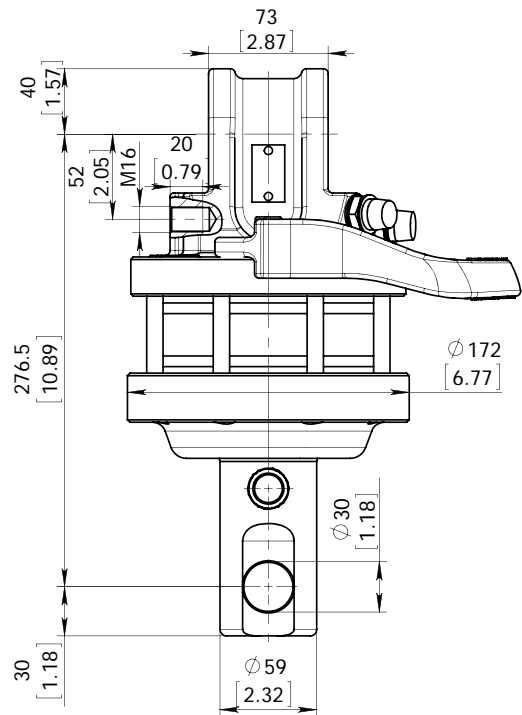
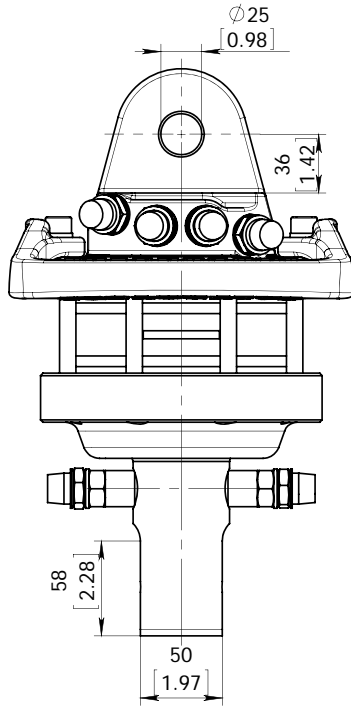


GR46 (2014 model)
GR46 advanced performance (2015 model)

less wearing
less spare parts
by
the same torque
the same quality
for
the same money
is
more durability
more efficiency



GR4series
advanced performance

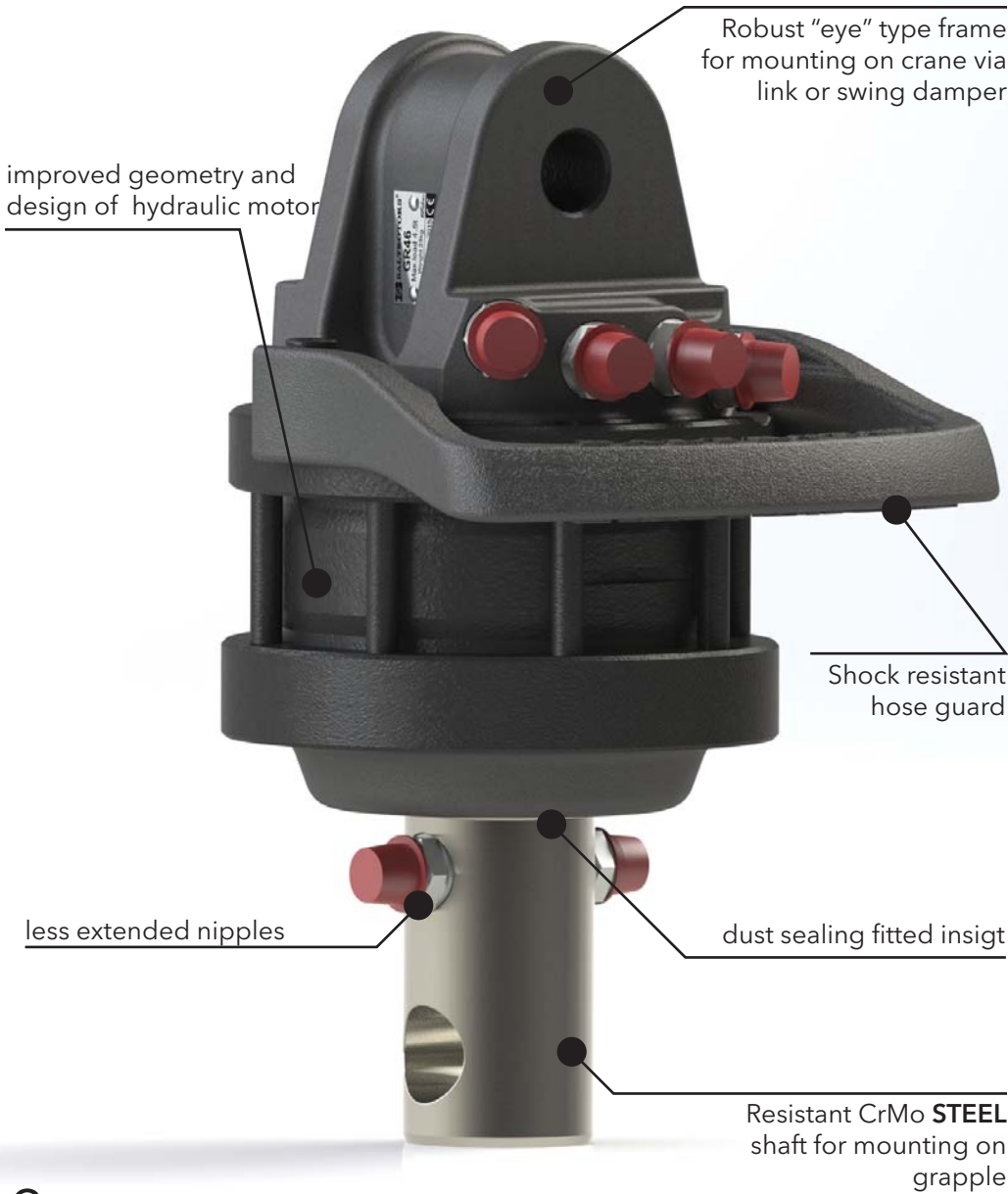


Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	45 (10118)
Max axial load dynamic, KN (lbf)	25 (5621)
Torque at 25Mpa (3625psi), Nm (lb ft)	1100 (811)
Rec oilflow, l/min (US gallon)	20 (5.3)
Weight, kg (lb)	24 (53)
Max working pressure:	Connection:
Rotator ←R→	Max 25 MPa (3625 psi) G 3/8
Grapple / Tool open ←G→	Max 20 MPa (2900 psi) G 3/8
Grapple / Tool close →G←	Max 30 MPa (4350 psi) G 3/8

Hydraulic rotator

GR46



Recomend with links and swing dampers:

BR1 and BR4



Without brakes

BR10 and BR40

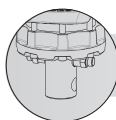


With single brake

2 years waranty



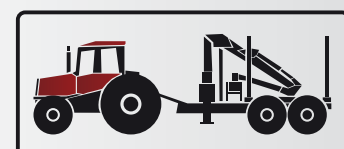
L73mm / PIN Ø25mm



Ø59mm / PIN Ø30mm

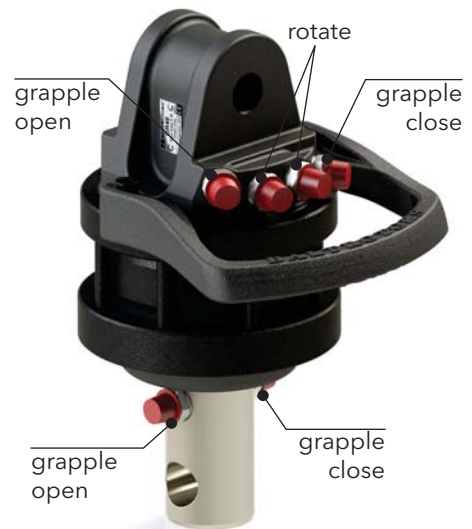
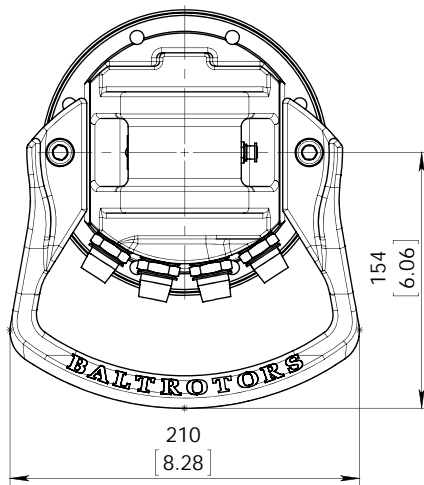
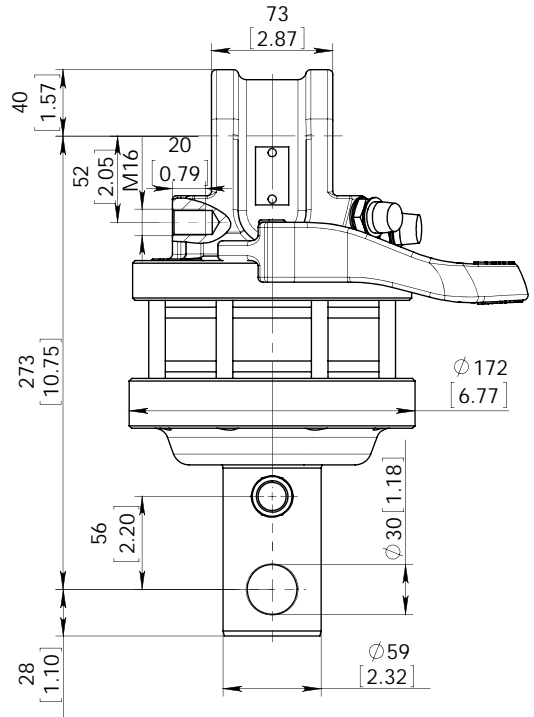
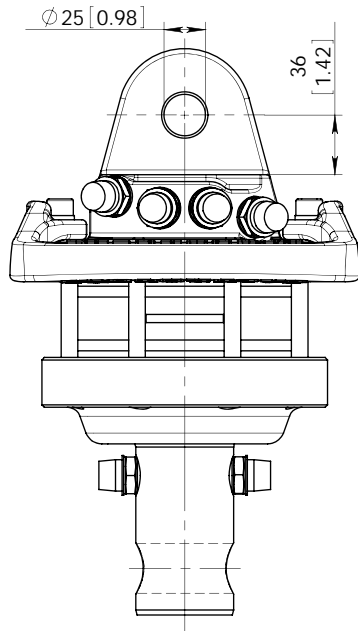
	45 kN		
	1100 Nm at 25MPa		
	25 kN		
	25 kg		
	25 MPa		3/8"
	20 MPa		3/8"
	30 MPa		3/8"

best for:

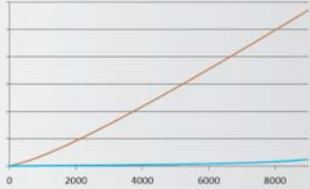


Since 2015 third quarter all Baltrotors 4t series rotators are performed in new, improved design.

GR46 dimensions mm [inch]

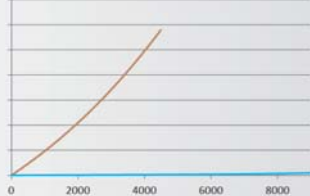


less wearing of the chamber



GR46 (2014 model)
GR46 advanced performance (2015 model)

less wearing of the internal bushing



GR46 (2014 model)
GR46 advanced performance (2015 model)

less wearing
less spare parts
by
the same torque
the same quality
for
the same money
is
more durability
more efficiency



GR4series
advanced performance

Technical data

Rotation	Unlimited
Max axial load static, kN (lbf)	45 (10118)
Max axial load dynamic, kN (lbf)	25 (5621)
Torque at 25Mpa (3625psi), Nm (lb ft)	1100 (811)
Rec oilflow, l/min (US gallon)	20 (5.3)
Weight, kg (lb)	25 (55)

Max working pressure: Connection:

Rotator	←R→	Max 25 MPa (3625 psi)	G 3/8
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)	G 3/8
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 3/8

Hydraulic rotator

GR46-01



Recomend with links and swing dampers:

BR1 and BR4



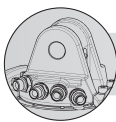
Without brakes

BR10 and BR40

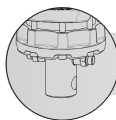


With single brake

2 years waranty



L73mm / PIN Ø25mm



Ø59mm / PIN Ø30mm



45 kN



1100 Nm at 25MPa



25 kN



25 kg



25 MPa



3/8"



20 MPa



3/8"

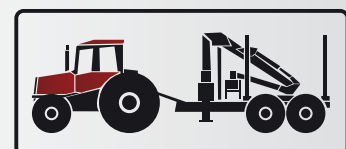


30 MPa



3/8"

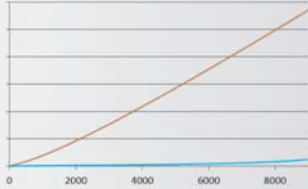
best for:



Since 2015 third quarter all Baltrotors 4t series rotators are performed in new, improved design.

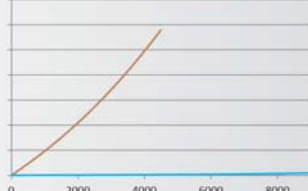
GR46-01 dimensions mm [inch]

less wearing of the chamber



GR46 (2014 model)
GR46 advanced performance (2015 model)

less wearing of the internal bushing

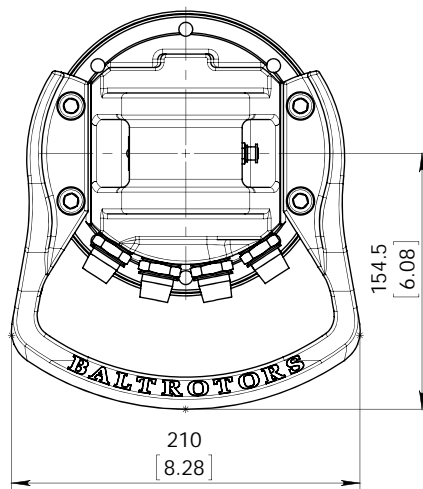
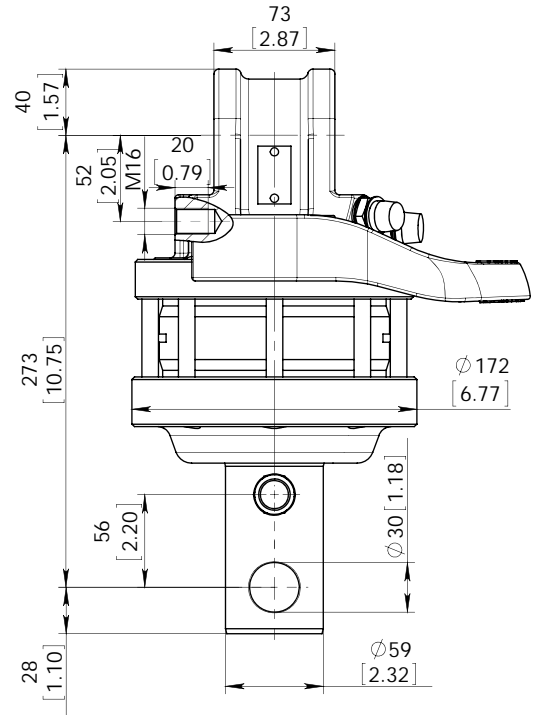
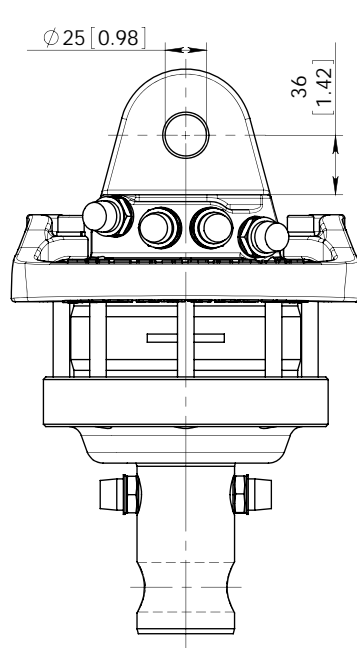


GR46 (2014 model)
GR46 advanced performance (2015 model)

less wearing
less spare parts
by
the same torque
the same quality
for
the same money
is
more durability
more efficiency



GR4series
advanced performance



Technical data

Rotation	Unlimited
Max axial load static, kN (lbf)	45 (10118)
Max axial load dynamic, kN (lbf)	25 (5621)
Torque at 25Mpa (3625psi), Nm (lb ft)	1100 (811)
Rec oilflow, l/min (US gallon)	20 (5.3)
Weight, kg (lb)	25 (55)

Max working pressure:	Connection:
Rotator ←R→ Max 25 MPa (3625 psi)	G 3/8
Grapple / Tool open ←G→ Max 20 MPa (2900 psi)	G 3/8
Grapple / Tool close →G← Max 30 MPa (4350 psi)	G 3/8

Hydraulic rotator

GR463



Recomend with links and swing dampers:

BR1 and BR4



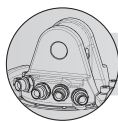
Without brakes

BR10 and BR40

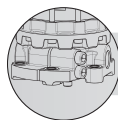


With single brake

2 years waranty



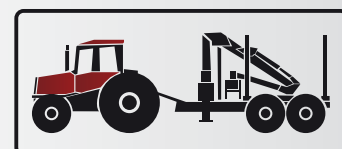
L73mm / PIN Ø25mm



Ø17mm (6X-2) on Ø273mm

	45 kN		
	1100 Nm at 25MPa		
	25 kN		
	29 kg		
	25 MPa		3/8"
	20 MPa		3/8"
	30 MPa		3/8"

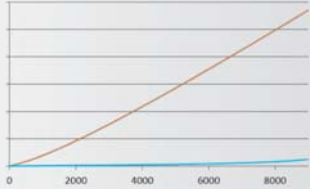
best for:



Since 2015 third quarter all Baltrotors 4t series rotators are performed in new, improved design.

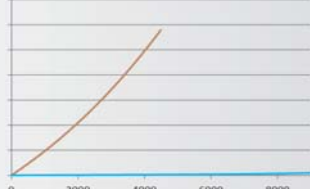
GR463 dimensions mm [inch]

less wearing of the chamber



GR46 (2014 model)
GR46 advanced performance (2015 model)

less wearing of the internal bushing

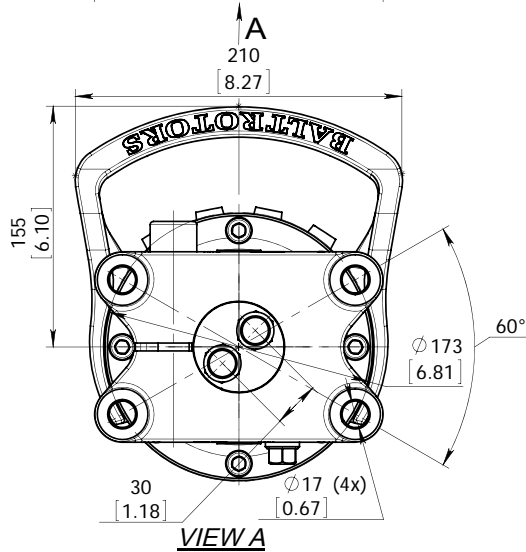
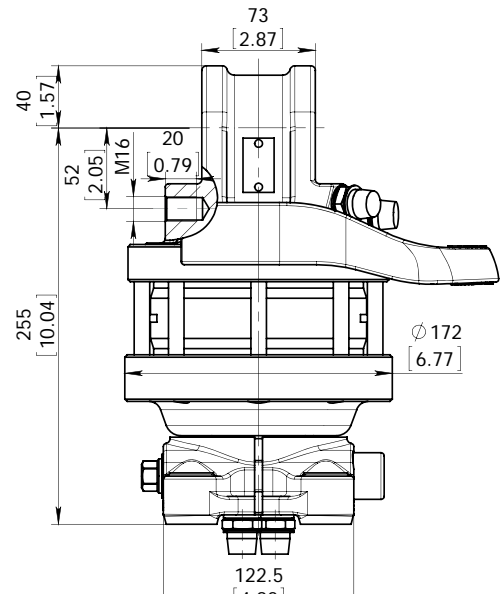
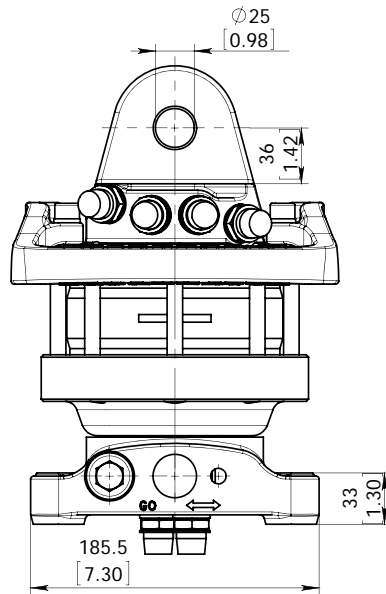


GR46 (2014 model)
GR46 advanced performance (2015 model)

less wearing
less spare parts
by
the same torque
the same quality
for
the same money
is
more durability
more efficiency



GR4series
advanced performance



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	45 (10118)
Max axial load dynamic, KN (lbf)	25 (5621)
Torque at 25Mpa (3625psi), Nm (lb ft)	1100 (811)
Rec oilflow, l/min (US gallon)	20 (5.3)
Weight, kg (lb)	29 (64)

Max working pressure:

Rotator	↔R↔	Max 25 MPa (3625 psi)	G 3/8"
Grapple / Tool open	↔G↔	Max 20 MPa (2900 psi)	G 3/8"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 3/8"

Connection:

Hydraulic rotator

GR463-01



Recomend with links and swing dampers:

BR1 and BR4



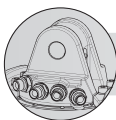
Without brakes

BR10 and BR40

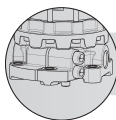


With single brake

2 years waranty



L73mm / PIN Ø25mm



Ø17mm (6X-2) on Ø273mm



45 kN



1100 Nm at 25MPa



25 kN



29 kg



25 MPa



20 MPa



30 MPa



3/8"

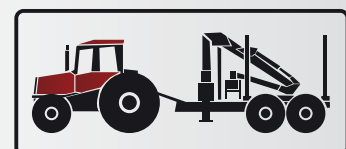


3/8"



3/8"

best for:

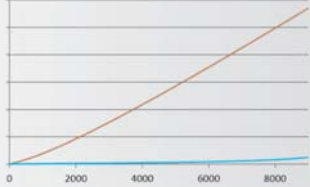


Since 2015 third quarter all Baltrotors 4t series rotators are performed in new, improved design.

GR463-01

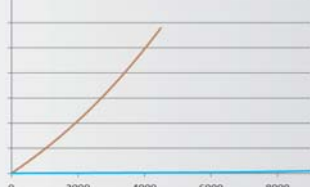
dimensions mm [inch]

less wearing of the chamber



GR46 (2014 model)
GR46 advanced performance (2015 model)

less wearing of the internal bushing

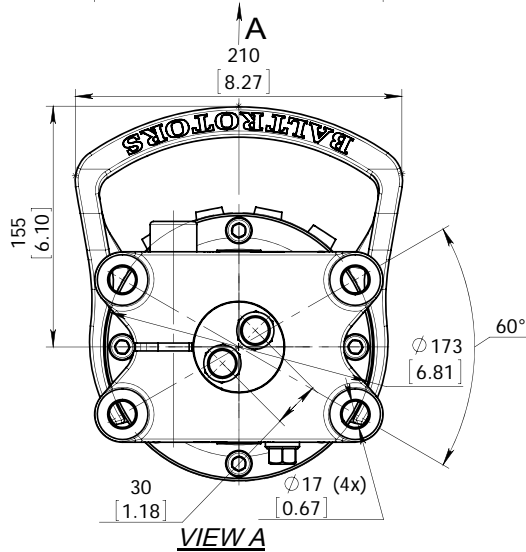
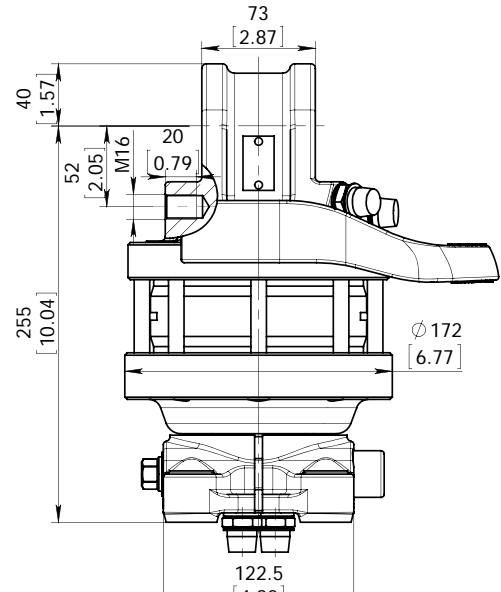
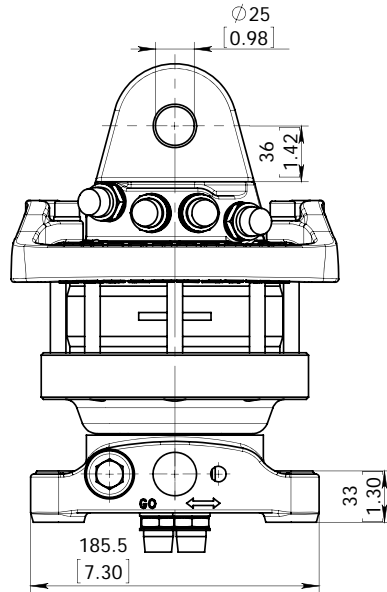


GR46 (2014 model)
GR46 advanced performance (2015 model)

less wearing
less spare parts
by
the same torque
the same quality
for
the same money
is
more durability
more efficiency



GR4series
advanced performance



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	45 (10118)
Max axial load dynamic, KN (lbf)	25 (5621)
Torque at 25Mpa (3625psi), Nm (lb ft)	1100 (811)
Rec oilflow, l/min (US gallon)	20 (5.3)
Weight, kg (lb)	29 (64)

Max working pressure:

Rotator	↔R↔	Max 25 MPa (3625 psi)	G 3/8"
Grapple / Tool open	↔G↔	Max 20 MPa (2900 psi)	G 3/8"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 3/8"

Connection:

G 3/8"
G 3/8"
G 3/8"

Hydraulic rotator

GR465



Recomend with links and swing dampers:

BR1 and BR4



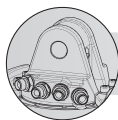
Without brakes

BR10 and BR40

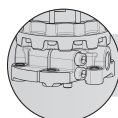


With single brake

2 years waranty



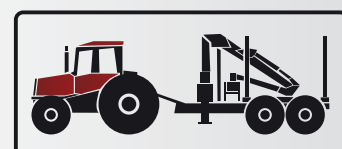
L73mm / PIN Ø25mm



Ø17mm (4X) on □140mm

	45 kN		
	1100 Nm at 25MPa		
	25 kN		
	27 kg		
	25 MPa		3/8"
	20 MPa		3/8"
	30 MPa		3/8"

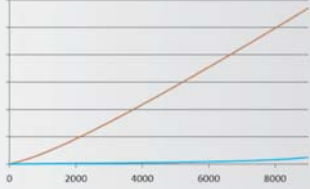
best for:



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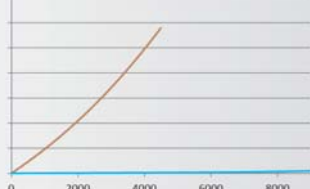
GR465 dimensions mm [inch]

less wearing of the chamber



GR46 (2014 model)
GR46 advanced performance (2015 model)

less wearing of the internal bushing

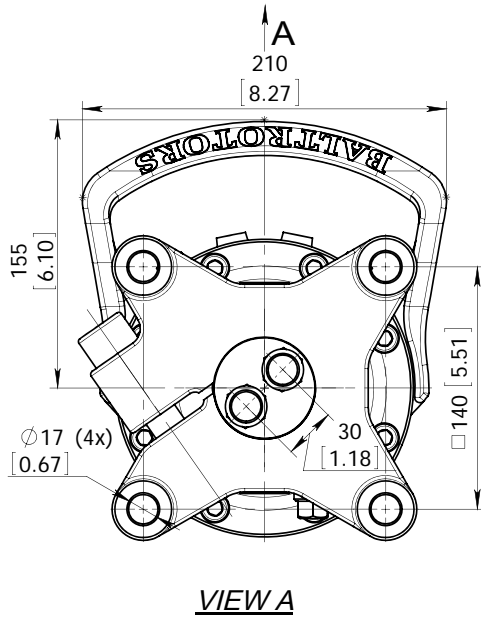
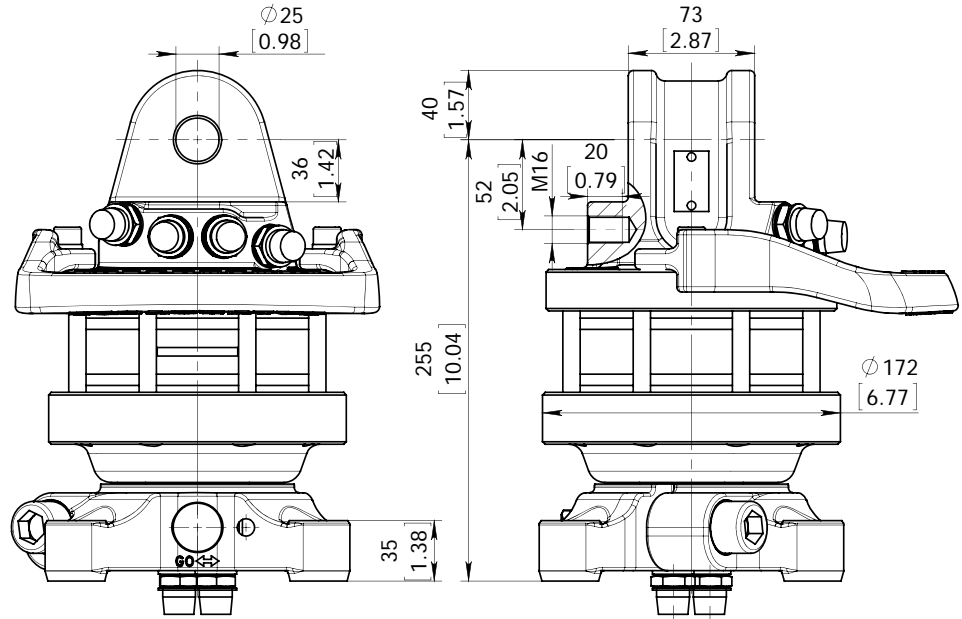


GR46 (2014 model)
GR46 advanced performance (2015 model)

less wearing
less spare parts
by
the same torque
the same quality
for
the same money
is
more durability
more efficiency

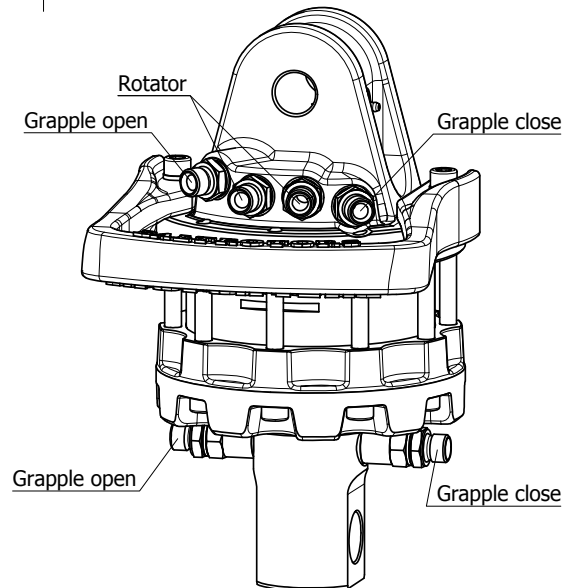
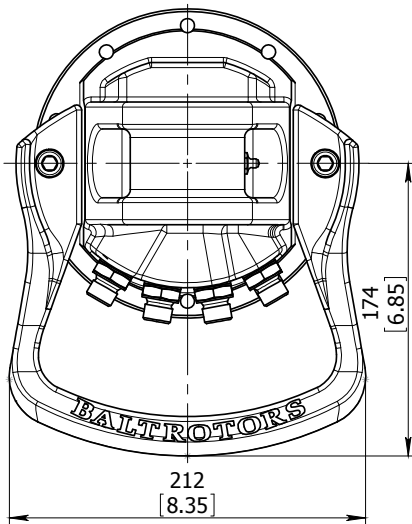
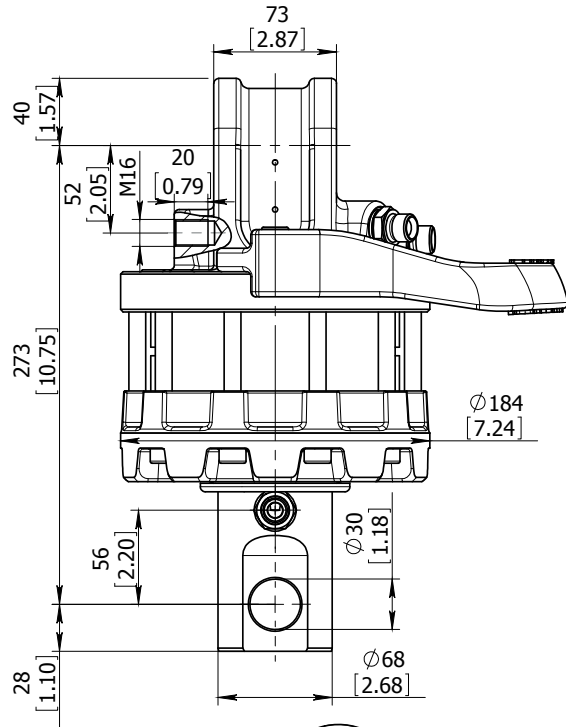
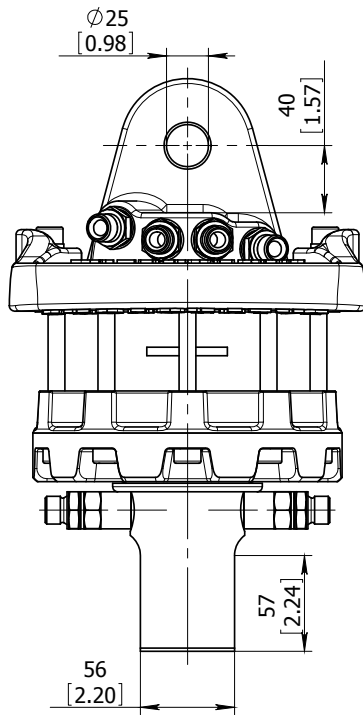


GR4series
advanced performance



Rotation	Unlimited
Max axial load static, KN (lbf)	45 (10118)
Max axial load dynamic, KN (lbf)	25 (5621)
Torque at 25Mpa (3625psi), Nm (lb ft)	1100 (811)
Rec oilflow, l/min (US gallon)	20 (5.3)
Weight, kg (lb)	30 (66)
Max working pressure:	Connection:
Rotator ←R→	Max 25 MPa (3625 psi) G 3/8"
Grapple / Tool open ←G→	Max 20 MPa (2900 psi) G 3/8"
Grapple / Tool close →G←	Max 30 MPa (4350 psi) G 3/8"

ROTATOR GR46/68M



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	45 (10118)
Max axial load dynamic, KN (lbf)	25 (5621)
Torque at 25Mpa (3625psi), Nm (lb ft)	1200 (885)
Rec oilflow, l/min (US gallon)	22 (5.8)
Weight, kg (lb)	29 (64)

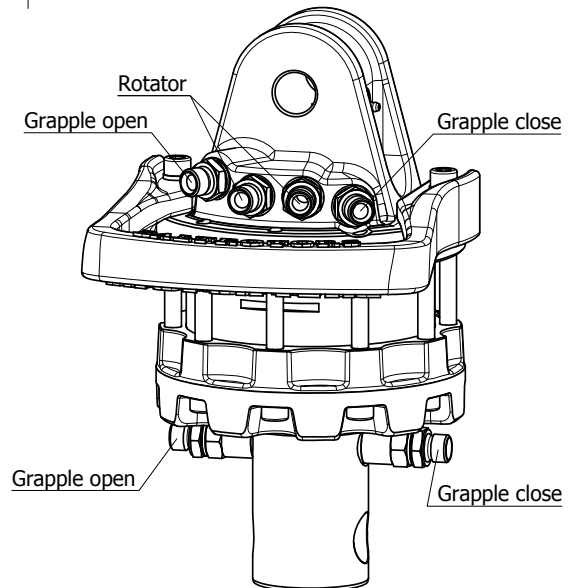
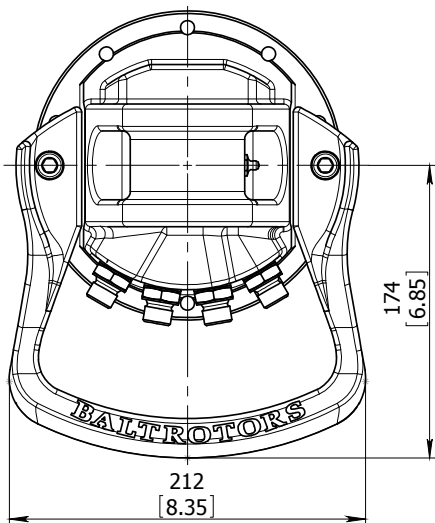
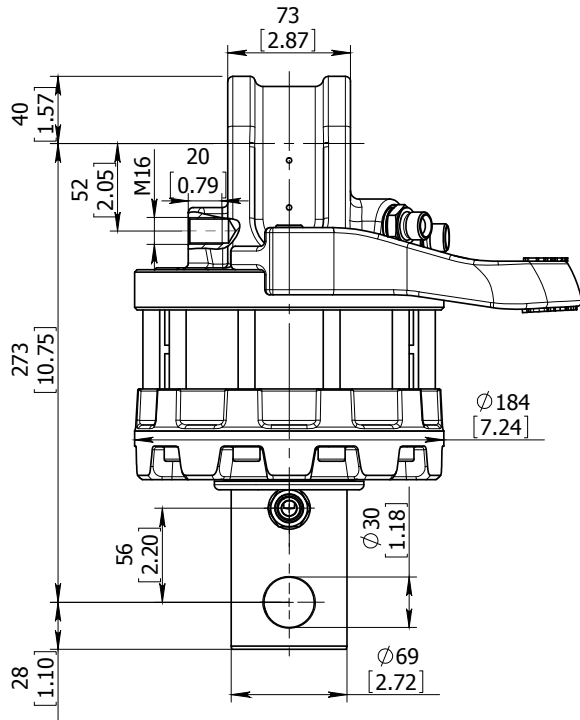
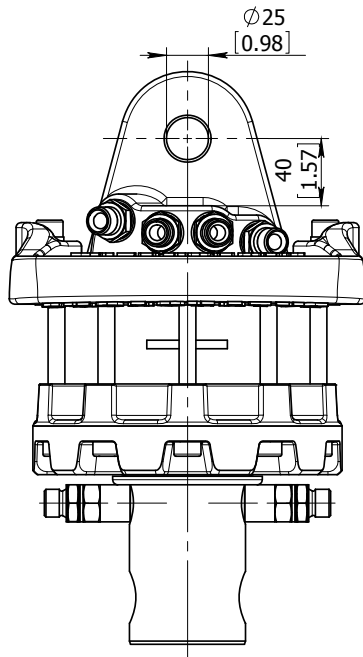
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)

Connection:

G 3/8"
G 3/8"
G 3/8"

ROTATOR GR46/69M



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	45 (10118)
Max axial load dynamic, KN (lbf)	25 (5621)
Torque at 25Mpa (3625psi), Nm (lb ft)	1200 (885)
Rec oilflow, l/min (US gallon)	22 (5.8)
Weight, kg (lb)	29 (64)

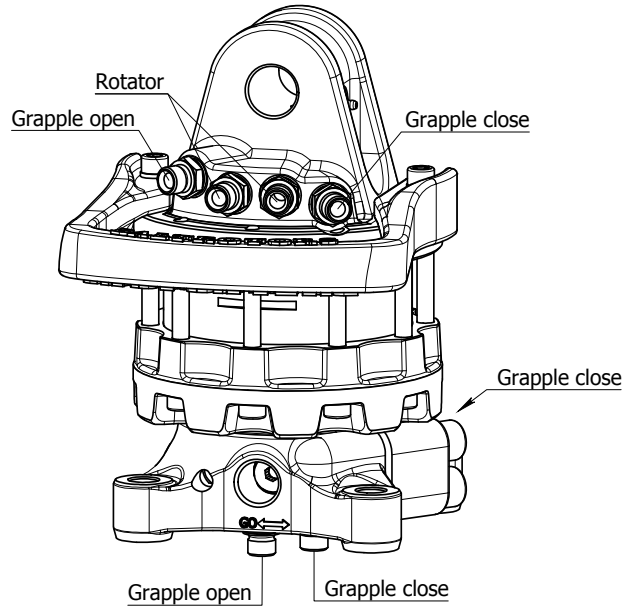
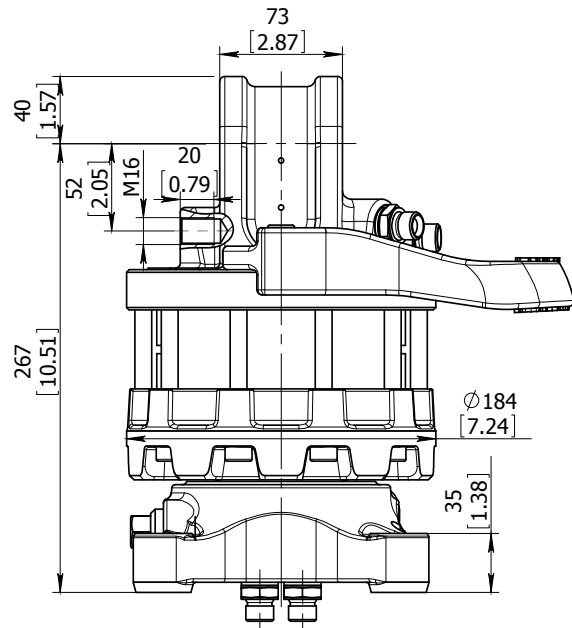
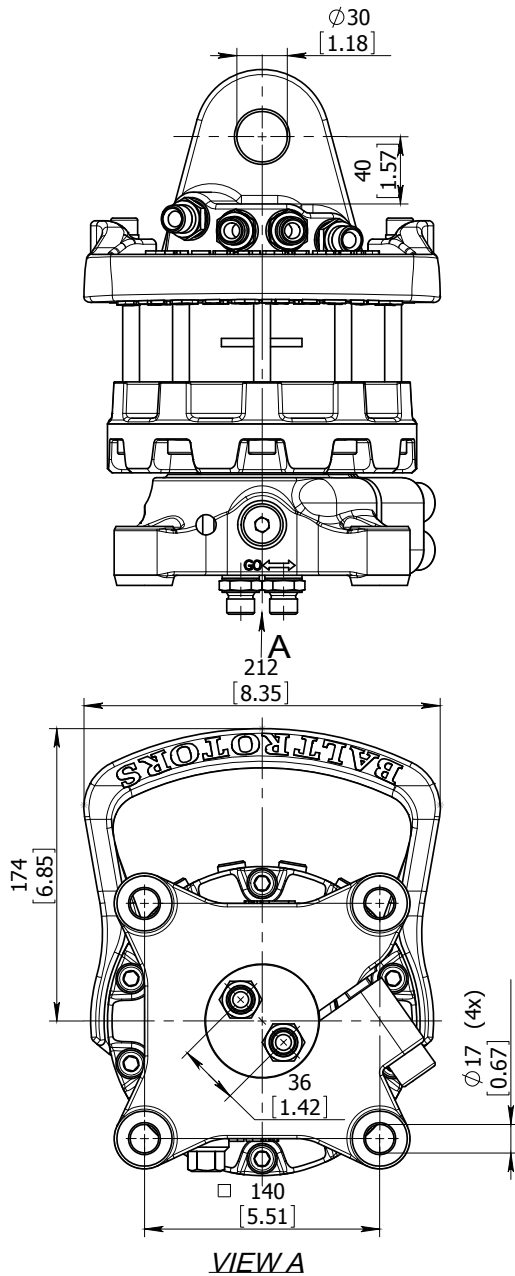
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)

Connection:

G 3/8"
G 3/8"
G 3/8"

ROTATOR GR465/68M



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	45 (10118)
Max axial load dynamic, KN (lbf)	25 (5621)
Torque at 25Mpa (3625psi), Nm (lb ft)	1200 (885)
Rec oilflow, l/min (US gallon)	22 (5.8)
Weight, kg (lb)	35 (78)

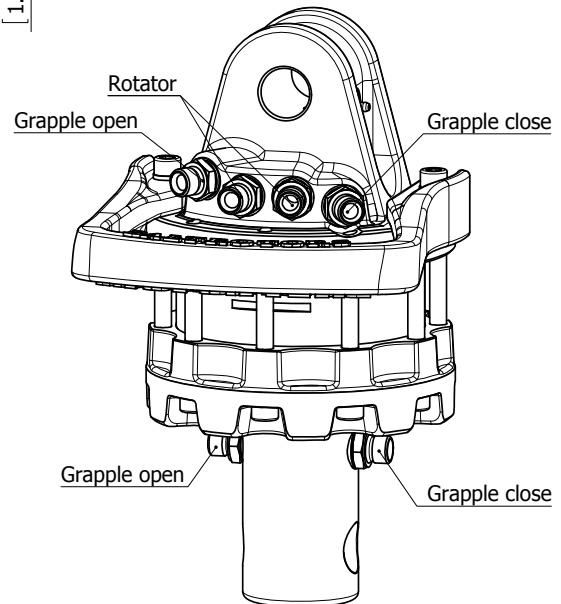
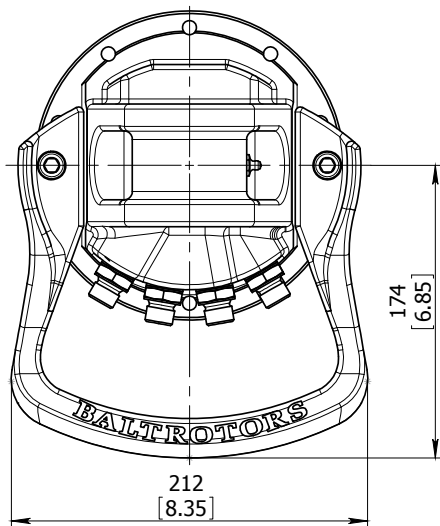
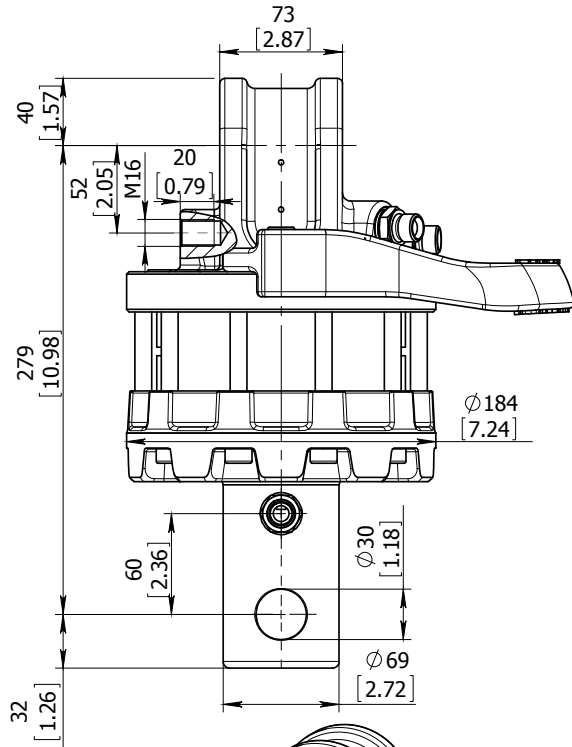
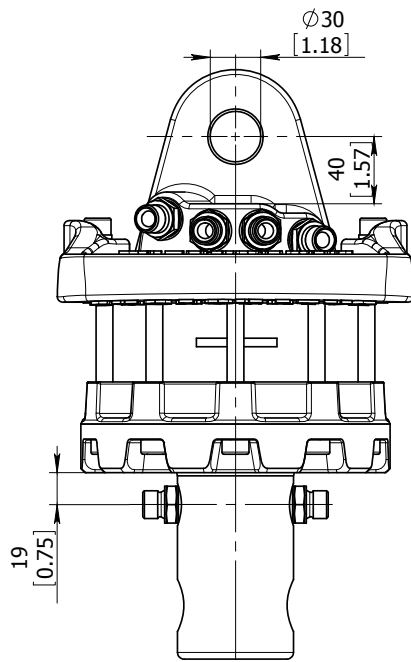
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)

Connection:

G 3/8"
G 3/8"
G 3/8"

ROTATOR A1.0501



Technical data

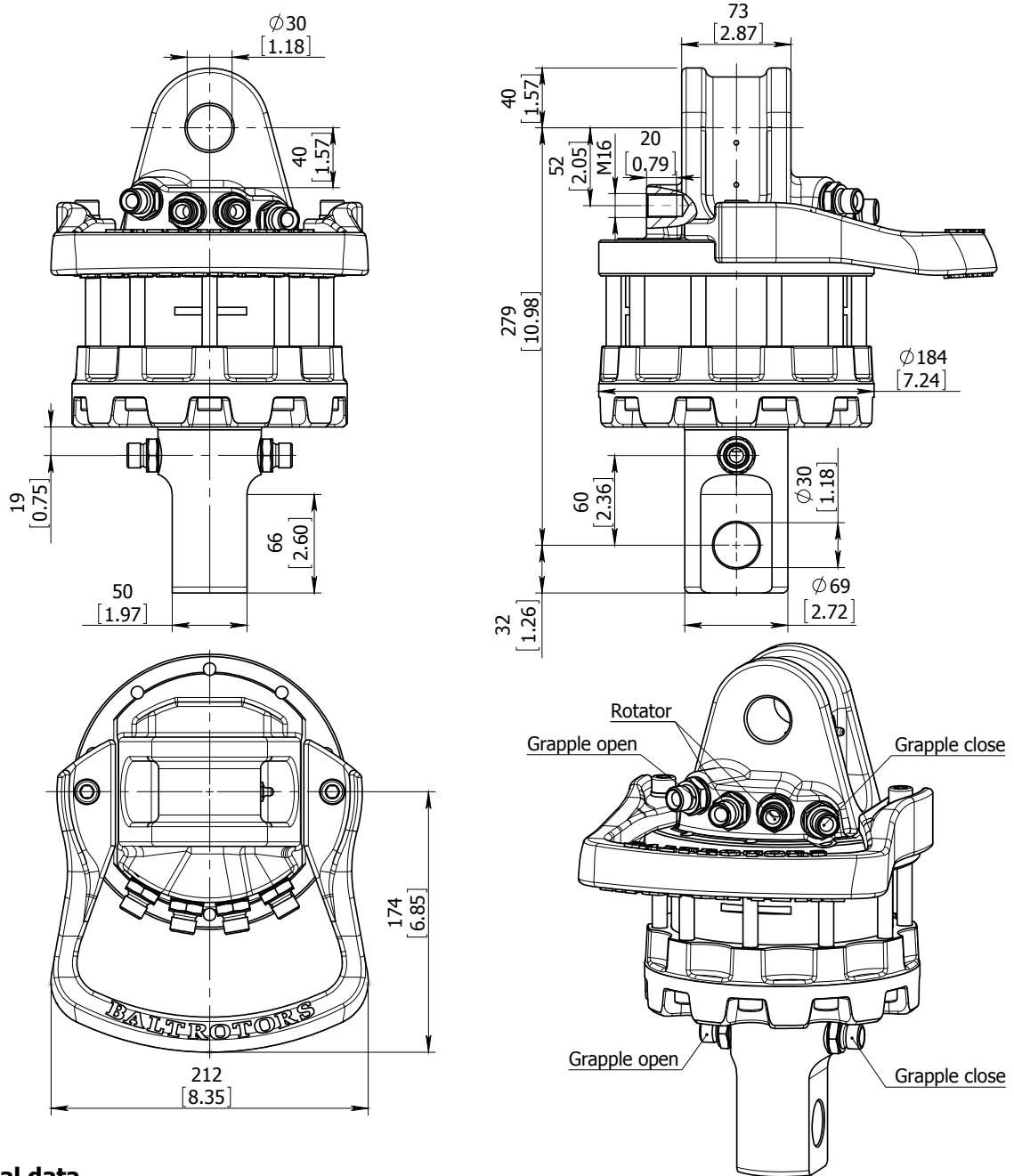
Rotation	Unlimited
Max axial load static, KN (lbf)	55 (12367)
Max axial load dynamic, KN (lbf)	25 (5621)
Torque at 25Mpa (3625psi), Nm (lb ft)	1300 (959)
Rec oilflow, l/min (US gallon)	22 (5.8)
Weight, kg (lb)	29 (64)

Max working pressure:

Connection:

Rotator	←R→	Max 25 MPa (3625 psi)	G 3/8"
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)	G 3/8"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 3/8"

ROTATOR A1.0502



Technical data

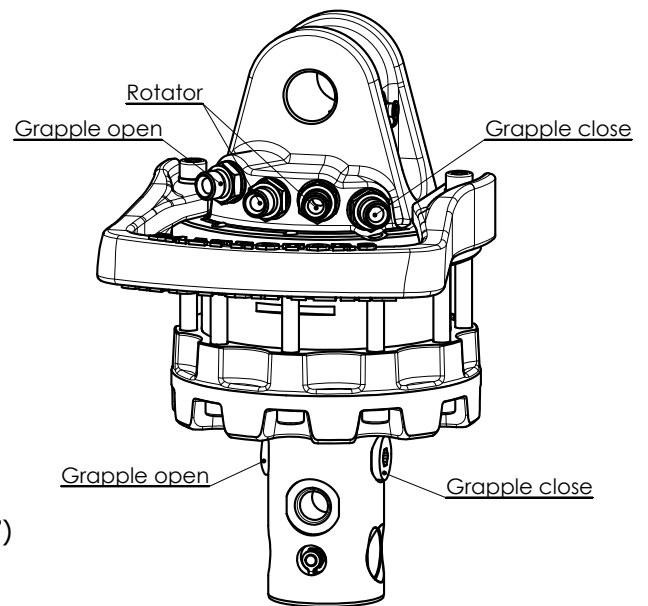
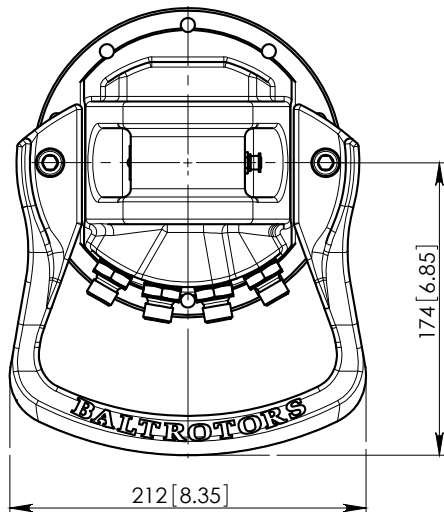
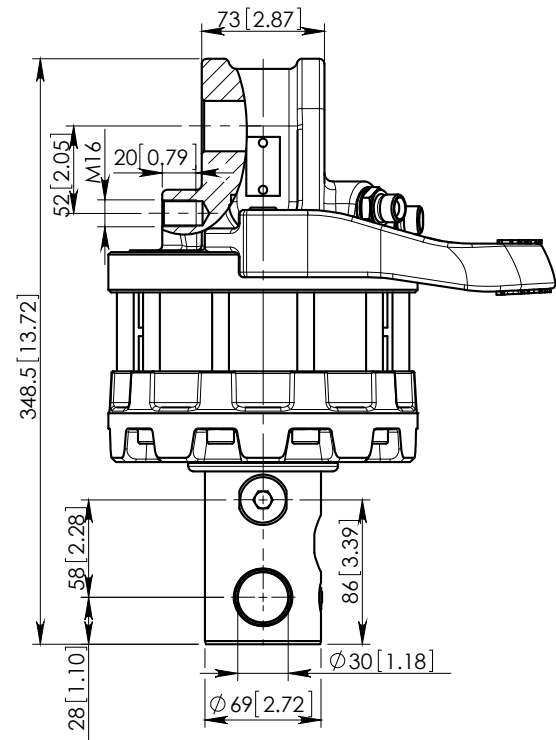
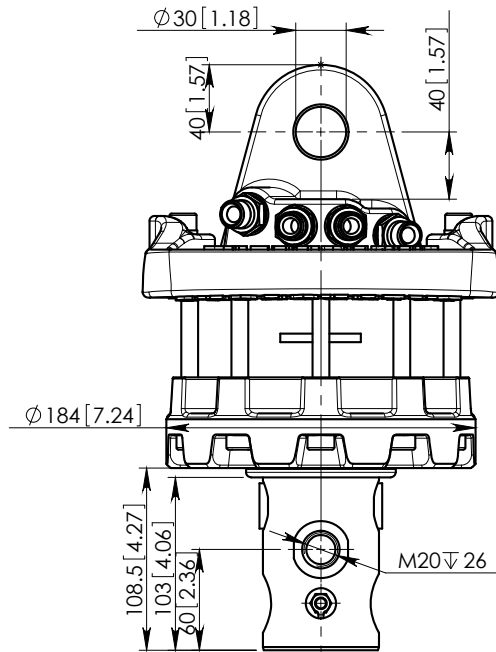
Rotation	Unlimited
Max axial load static, KN (lbf)	55 (12367)
Max axial load dynamic, KN (lbf)	25 (5621)
Torque at 25Mpa (3625psi), Nm (lb ft)	1300 (959)
Rec oilflow, l/min (US gallon)	22 (5.8)
Weight, kg (lb)	29 (64)

Max working pressure:

Connection:

Rotator	←R→	Max 25 MPa (3625 psi)	G 3/8"
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)	G 3/8"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 3/8"

ROTATOR GR55-01



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	55 (12367)
Max axial load dynamic, KN (lbf)	25 (5621)
Torque at 25Mpa (3625psi), Nm (lb ft)	1300 (959)
Rec oilflow, l/min (US gallon)	22 (5.8)
Weight, kg (lb)	29 (64)

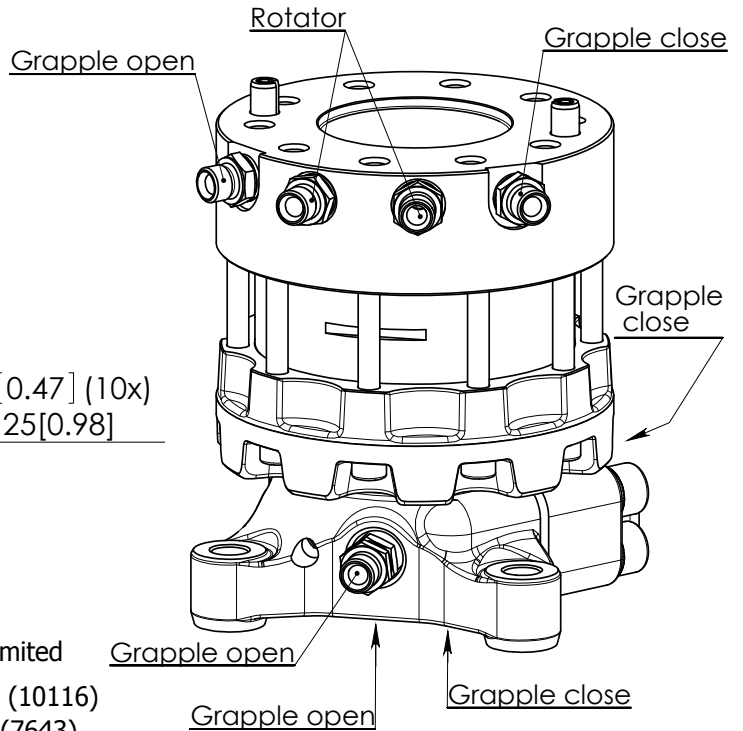
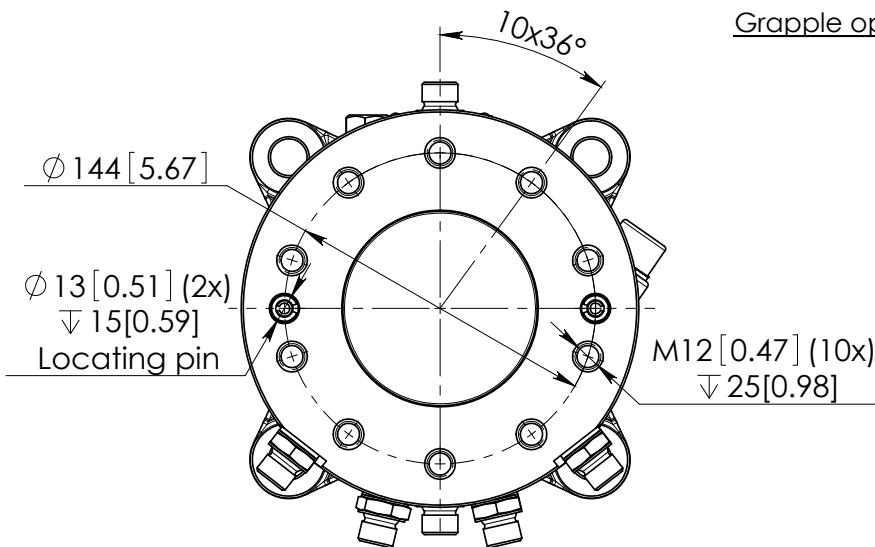
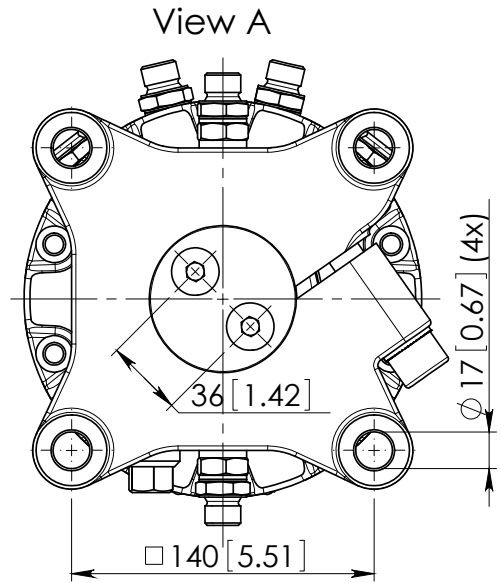
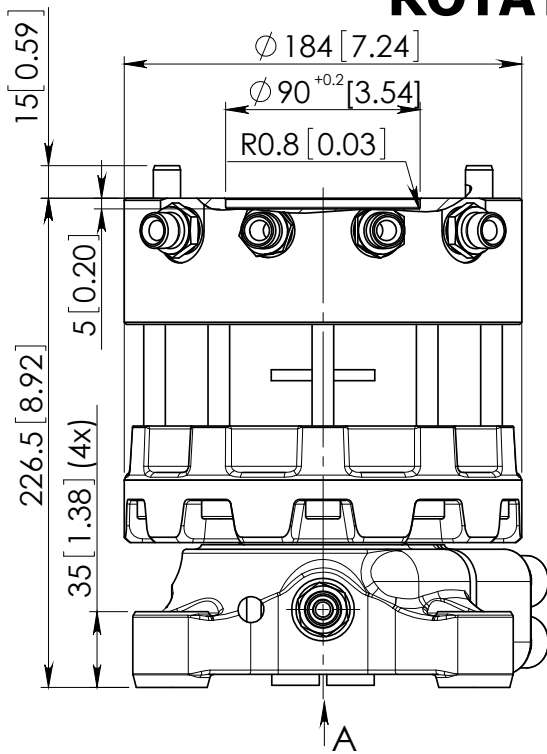
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)

Connection:

G 3/8"
upper G 3/8"; lower G1/2"
upper G 3/8"; lower G1/2"

ROTATOR GR55FF



Technical data

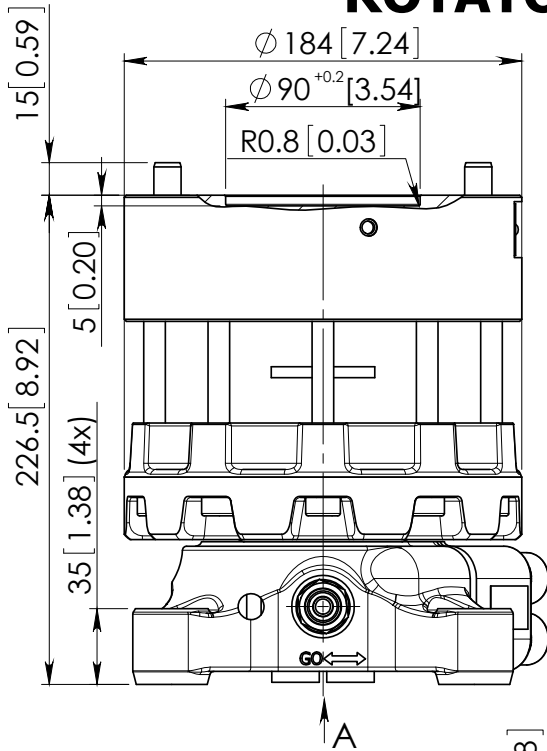
Rotation	Unlimited
Max axial load static, KN (lbf)	+45 (10116) -34 (7643)
Max axial load dynamic, KN (lbf)	+25 (5620) -17 (3821)
Torque at 25Mpa (3625psi), Nm (lb ft)	1300 (959)
Rec oilflow, l/min (US gallon)	22 (5.8)
Weight, kg (lb)	35 (78)

Max working pressure:

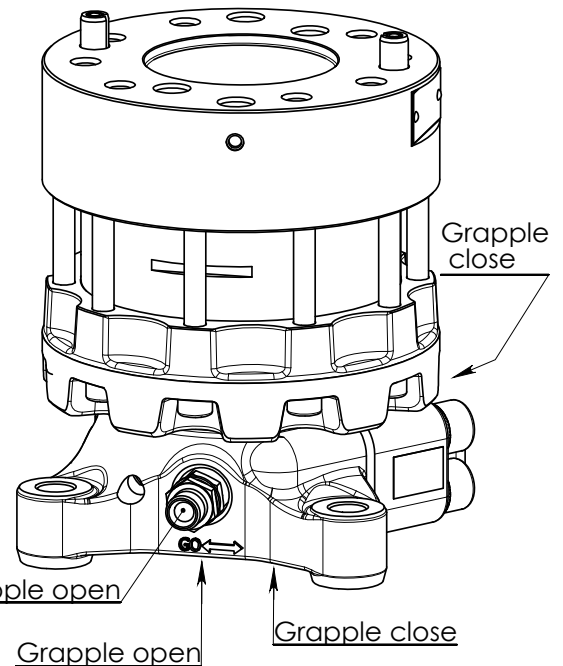
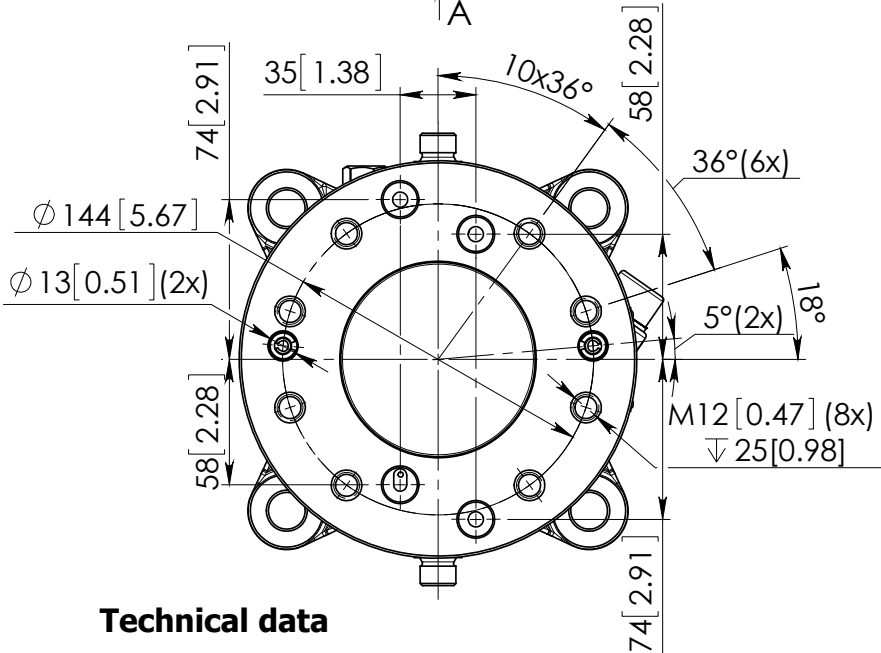
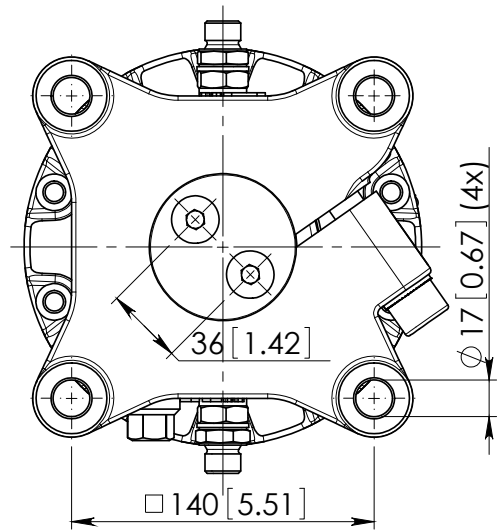
Rotator	←R→	Max 25 MPa (3625 psi)	G 3/8"
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)	G 3/8"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 3/8"

Connection:

ROTATOR GR55FF-01



View A



Technical data

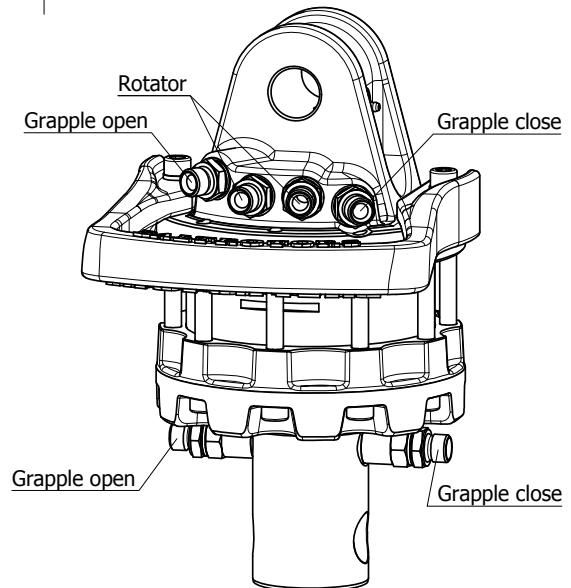
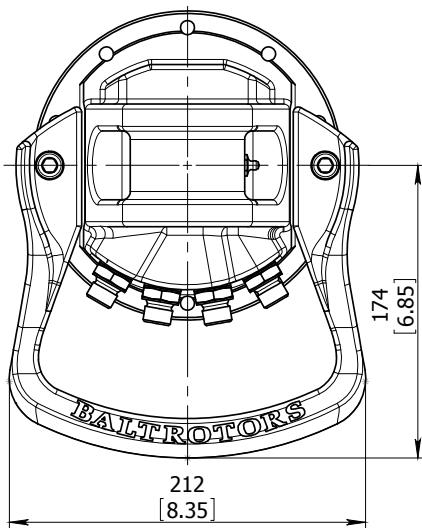
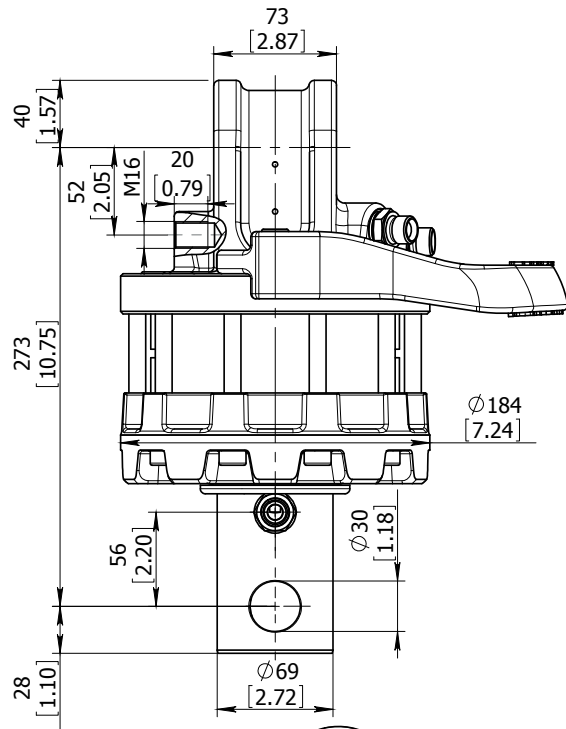
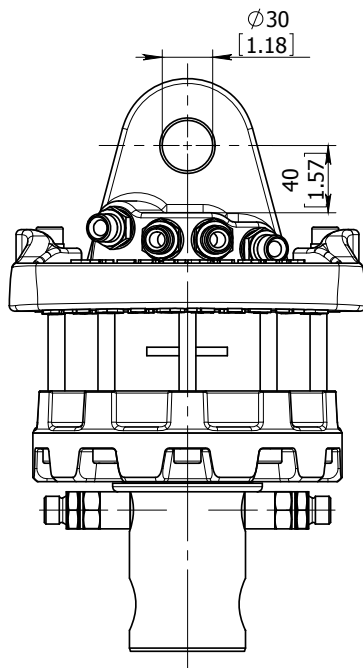
Rotation	Unlimited
Max axial load static, KN (lbf)	+45 (10116) -34 (7643)
Max axial load dynamic, KN (lbf)	+25 (5620) -17 (3821)
Torque at 25Mpa (3625psi), Nm (lb ft)	1300 (959)
Rec oilflow, l/min (US gallon)	22 (5.8)
Weight, kg (lb)	35 (78)

Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	G 3/8"
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)	G 3/8"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 3/8"

Connection:

ROTATOR GR55M



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	55 (12367)
Max axial load dynamic, KN (lbf)	25 (5621)
Torque at 25Mpa (3625psi), Nm (lb ft)	1300 (959)
Rec oilflow, l/min (US gallon)	22 (5.8)
Weight, kg (lb)	29 (64)

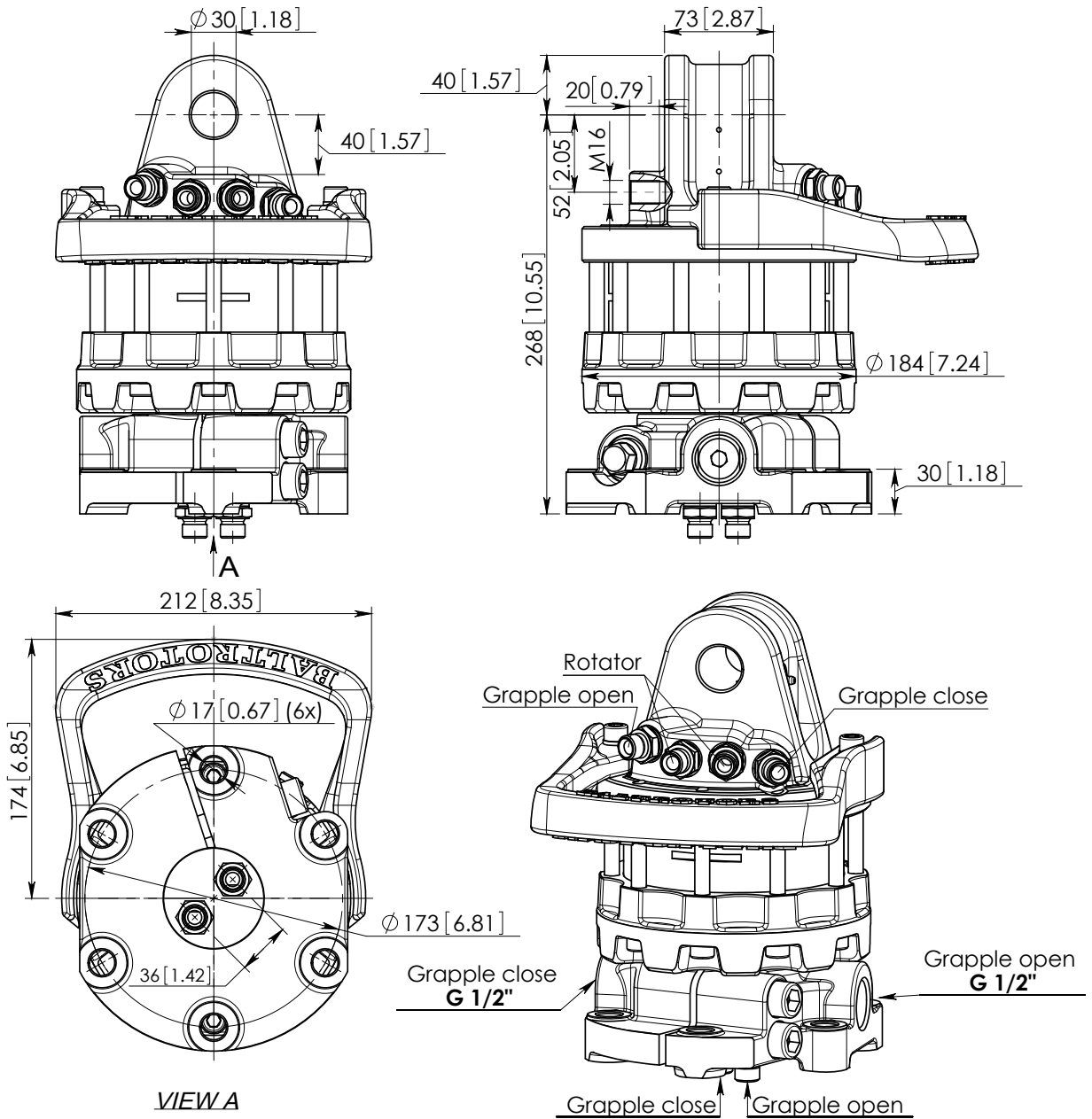
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)

Connection:

G 3/8"
G 3/8"
G 3/8"

ROTATOR GR55MF



VIEW A

Technical data

Rotation	Unlimited
Max axial load static	55 kN [12367 lbf]
Max axial load dynamic	25 kN [5621 lbf]
Torque at 25 MPa [3625 psi]	1300 Nm [959 lb ft]
Rec oilflow	22 l/min [5.8 gal(US)/min]
Weight	36 kg [79 lb]

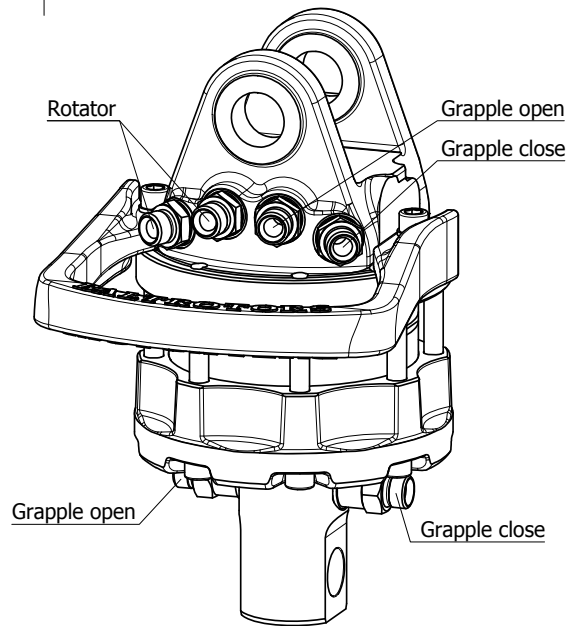
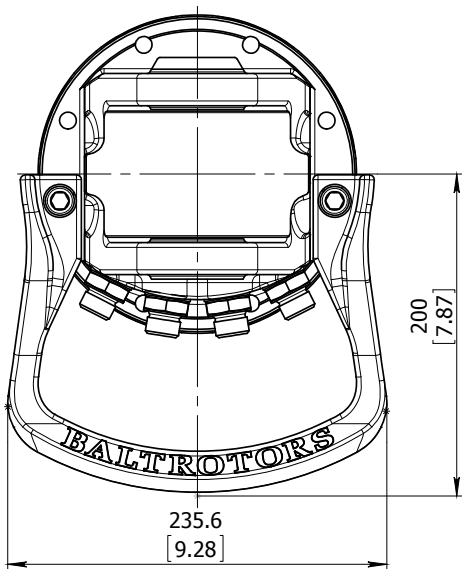
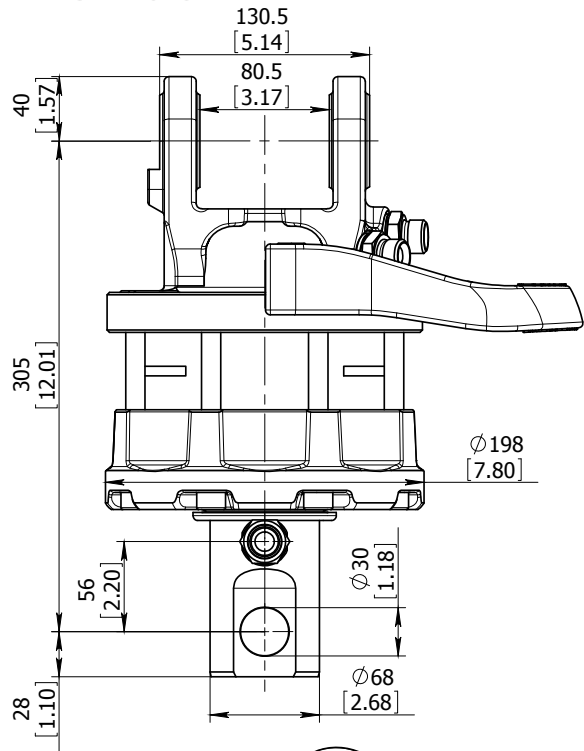
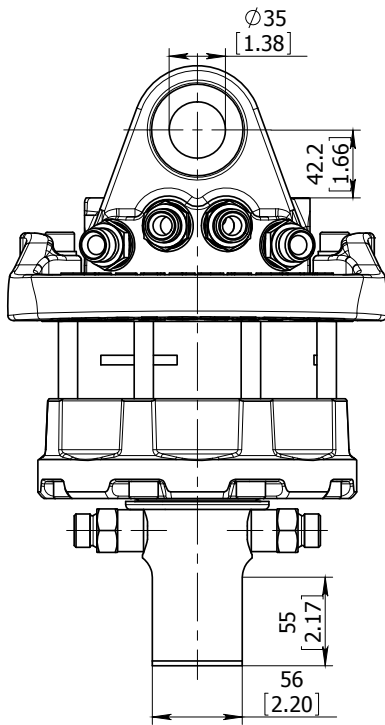
Max working pressure:

Rotator	←R→	Max 25 MPa [3625 psi]
Grapple / Tool open	←G→	Max 20 MPa [2900 psi]
Grapple / Tool close	→G←	Max 30 MPa [4350 psi]

Connection:

Rotator	G 3/8"
Grapple / Tool open	G 3/8"
Grapple / Tool close	G 3/8"

ROTATOR GR60



Technical data

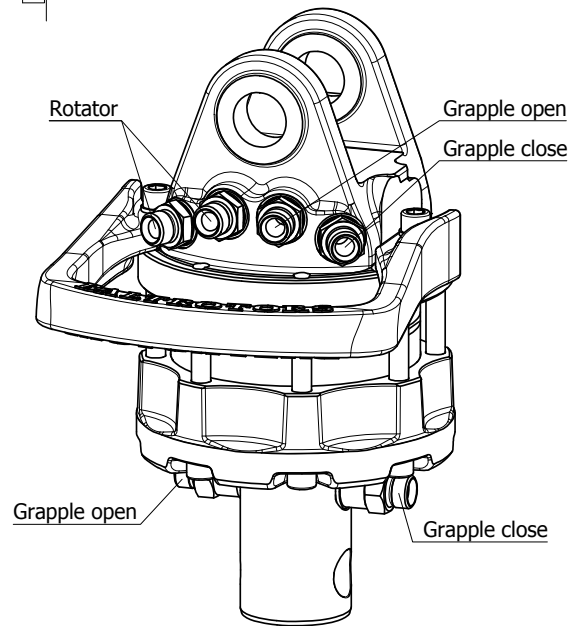
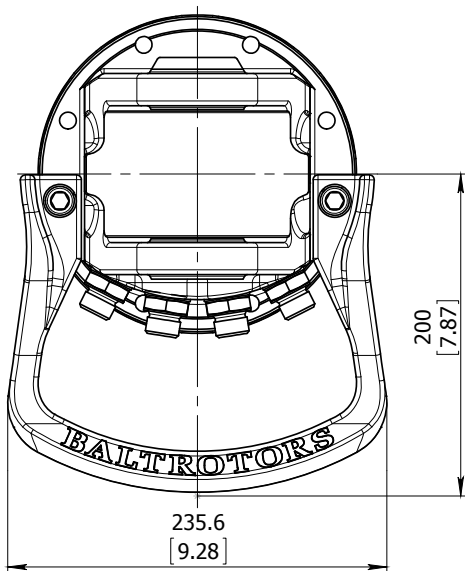
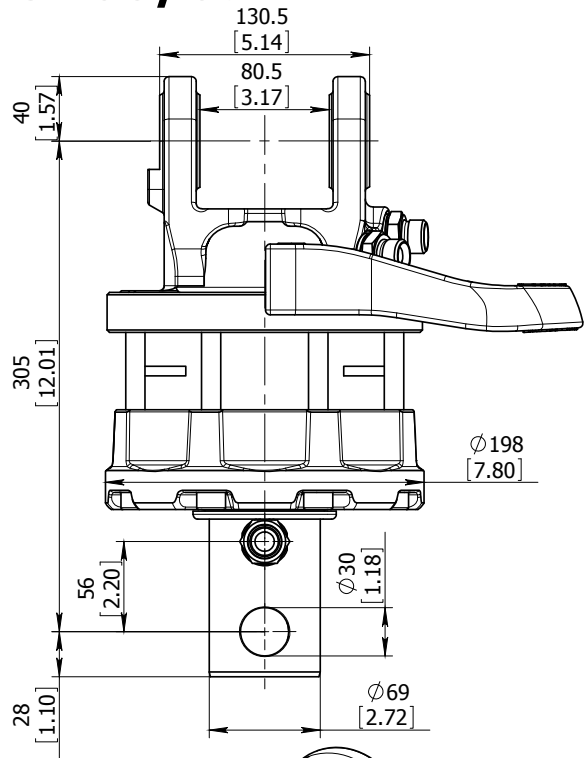
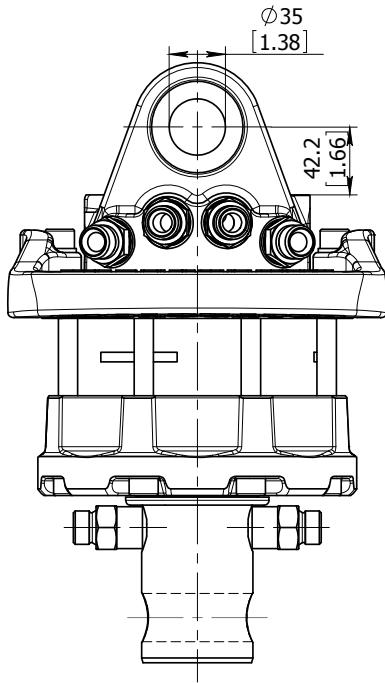
Rotation	Unlimited
Max axial load static, KN (lbf)	60 (13491)
Max axial load dynamic, KN (lbf)	30 (6745)
Torque at 25Mpa (3625psi), Nm (lb ft)	1800 (1328)
Rec oilflow, l/min (US gallon)	25 (6.6)
Weight, kg (lb)	36 (79)

Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	G 1/2"
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)	G 1/2"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/2"

Connection:

ROTATOR GR60/69



Technical data

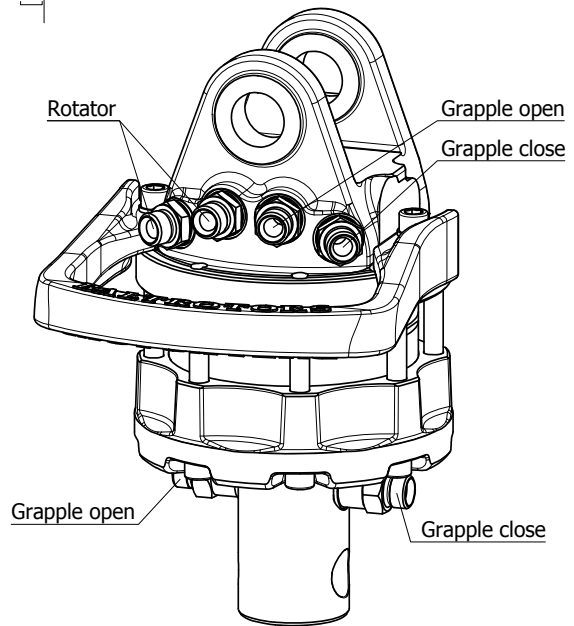
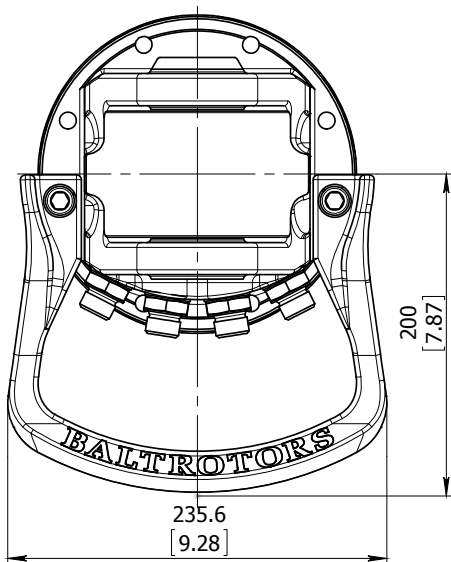
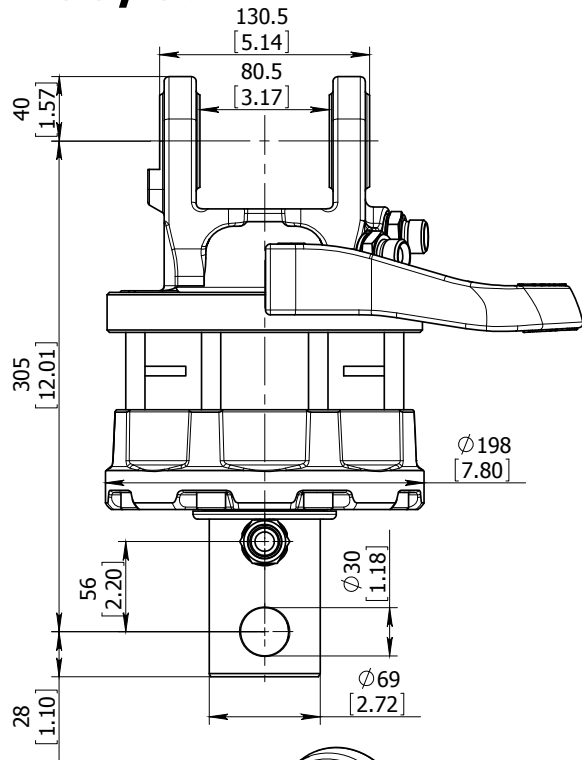
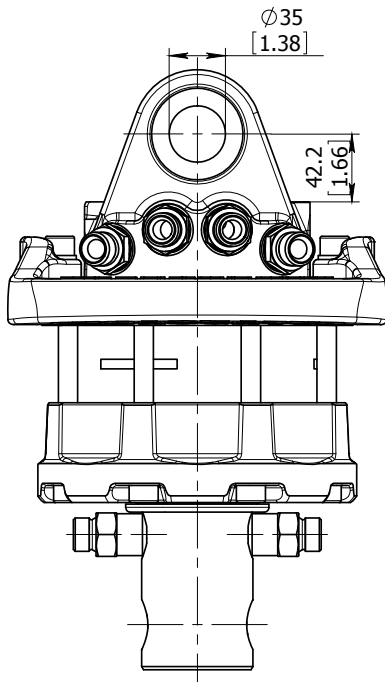
Rotation	Unlimited
Max axial load static, KN (lbf)	60 (13491)
Max axial load dynamic, KN (lbf)	30 (6745)
Torque at 25Mpa (3625psi), Nm (lb ft)	1800 (1328)
Rec oilflow, l/min (US gallon)	25 (6.6)
Weight, kg (lb)	37 (81)

Max working pressure:

Rotator	←R→ Max 25 MPa (3625 psi)	G 1/2"
Grapple / Tool open	←G→ Max 20 MPa (2900 psi)	G 1/2"
Grapple / Tool close	→G← Max 30 MPa (4350 psi)	G 1/2"

Connection:

ROTATOR GR60/69DB



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	+60 (13491)
	-50 (11242)
Max axial load dynamic, KN (lbf)	+30 (6745)
	-25 (5621)
Torque at 25Mpa (3625psi), Nm (lb ft)	1800 (1328)
Rec oilflow, l/min (US gallon)	25 (6.6)
Weight, kg (lb)	37 (81)

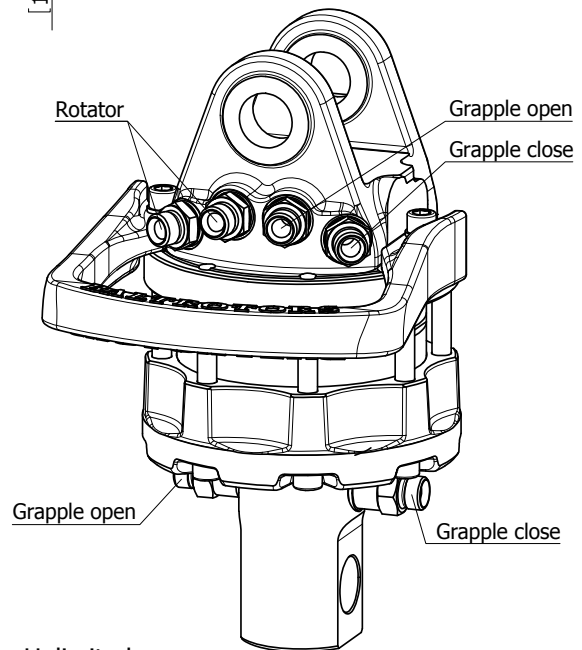
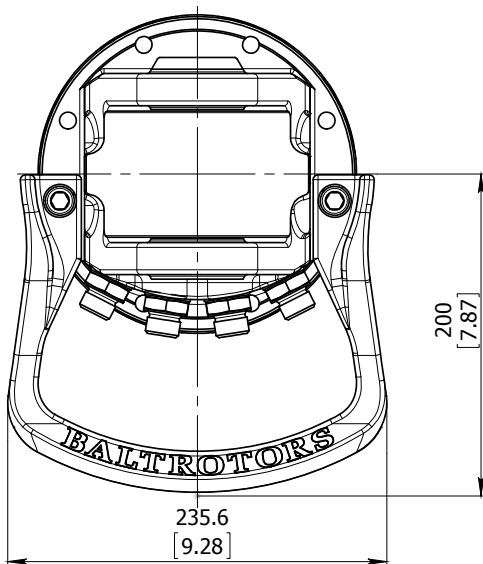
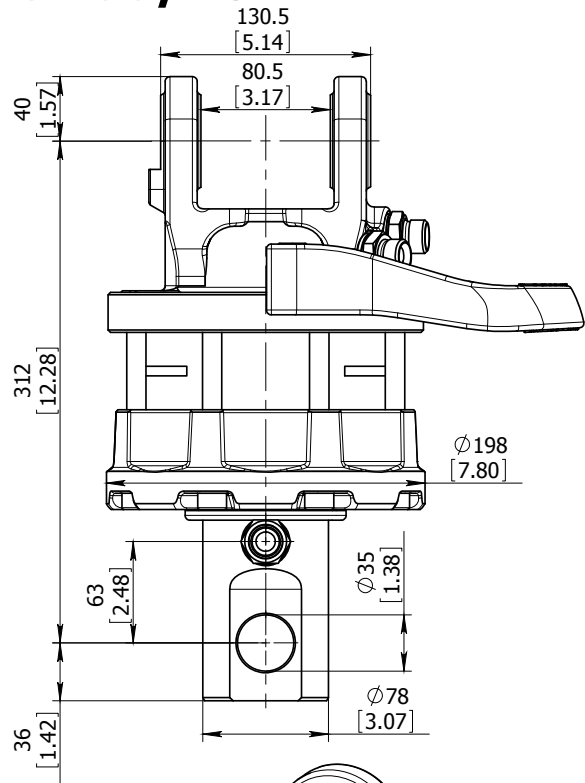
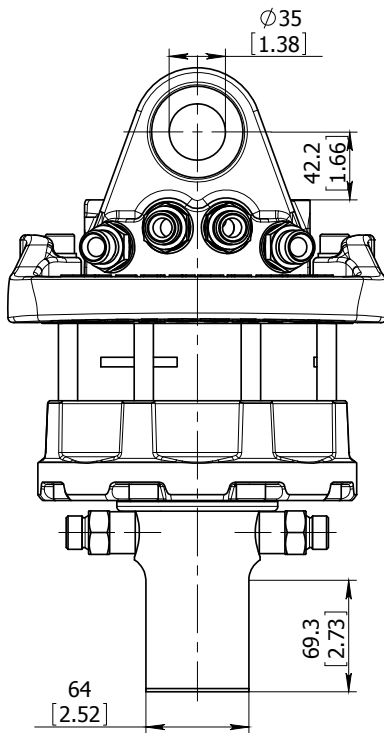
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	G 1/2"
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)	G 1/2"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/2"

Connection:

	G 1/2"
	G 1/2"
	G 1/2"

ROTATOR GR60/78



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	60 (13491)
Max axial load dynamic, KN (lbf)	30 (6745)
Torque at 25MPa (3625psi), Nm (lb ft)	1600 (1180)
Rec oilflow, l/min (US gallon)	25 (6.6)
Weight, kg (lb)	38 (84)

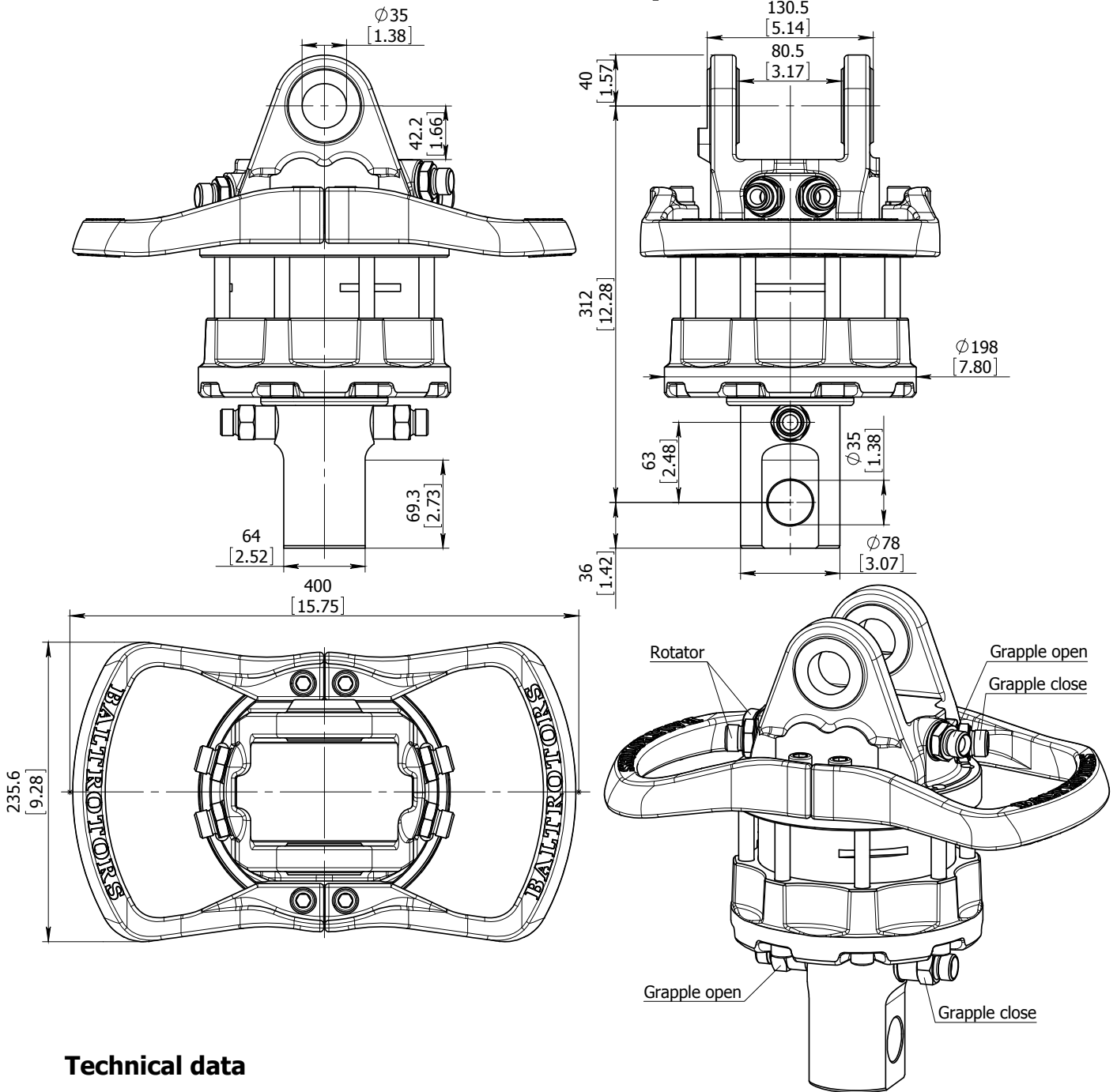
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	G 1/2"
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)	G 1/2"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/2"

Connection:

Rotator	←R→	Max 25 MPa (3625 psi)	G 1/2"
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)	G 1/2"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/2"

ROTATOR GR60/78-2DB



Technical data

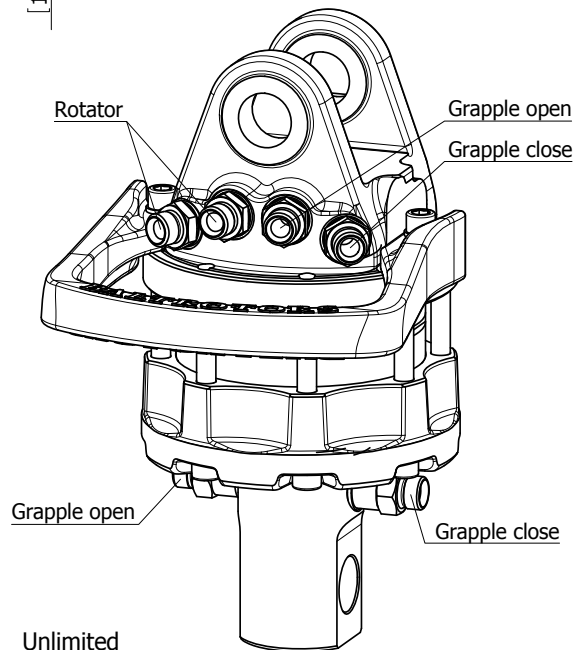
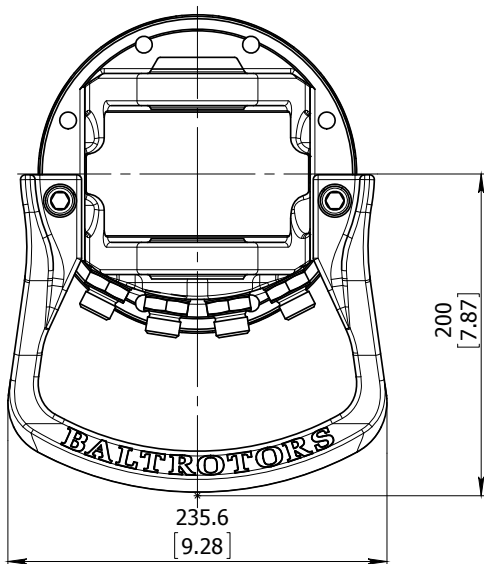
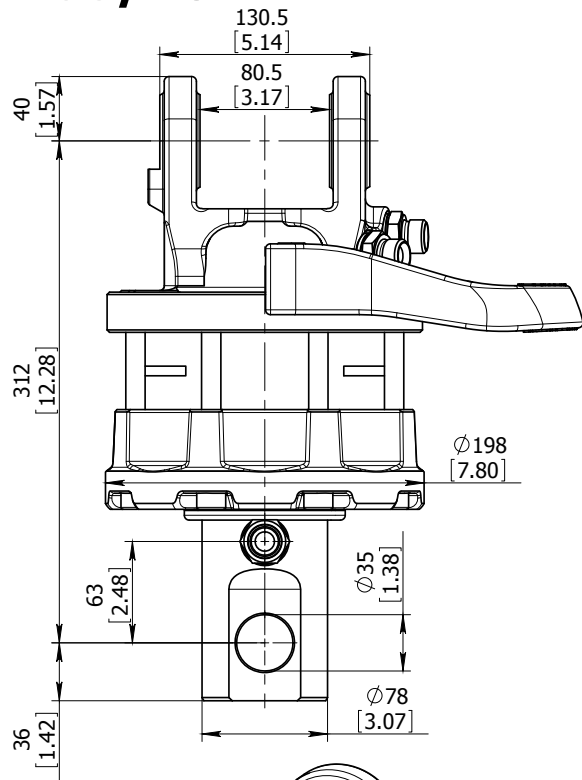
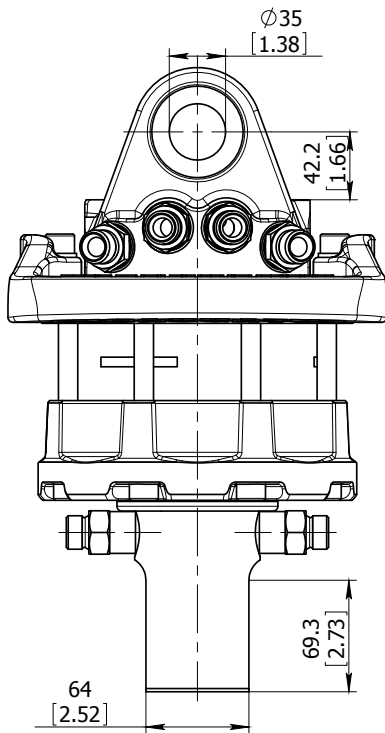
Rotation	Unlimited
Max axial load static, KN (lbf)	+60 (13491) -50 (11242)
Max axial load dynamic, KN (lbf)	+30 (6745) -25 (5621)
Torque at 25Mpa (3625psi), Nm (lb ft)	1600 (1180)
Rec oilflow, l/min (US gallon)	25 (6.6)
Weight, kg (lb)	40 (89)

Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	G 1/2"
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)	G 1/2"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/2"

Connection:

ROTATOR GR60/78DB



Technical data

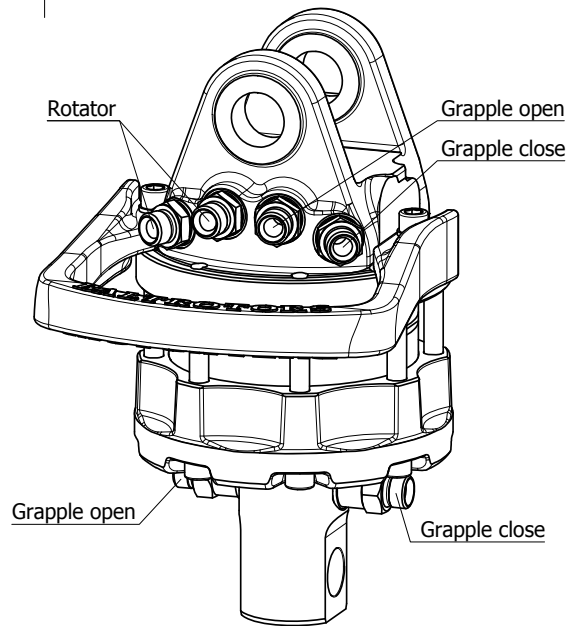
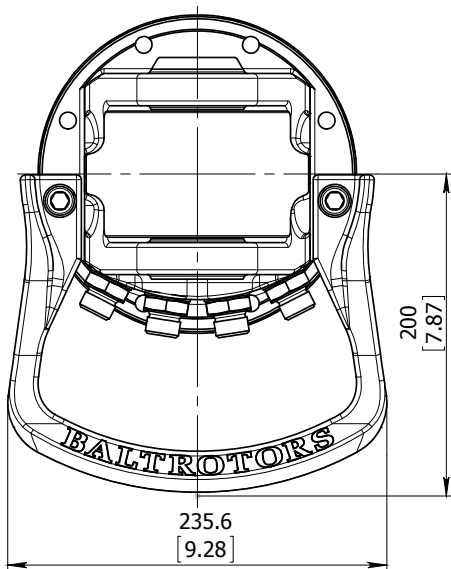
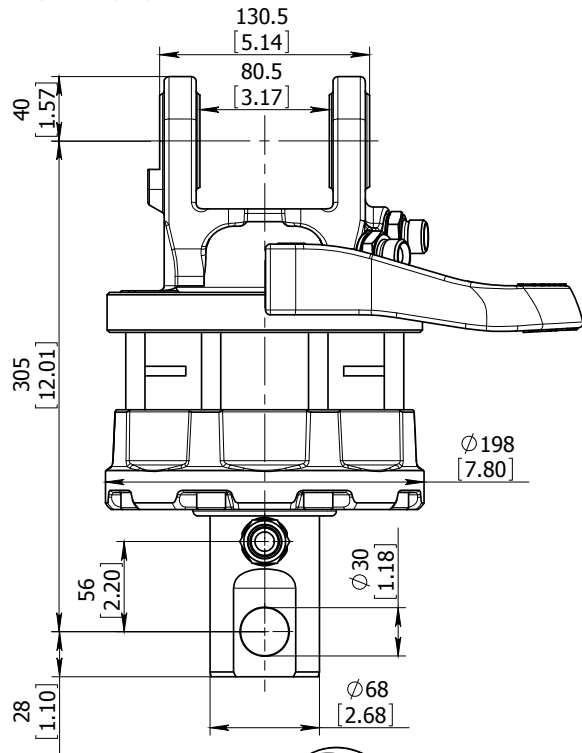
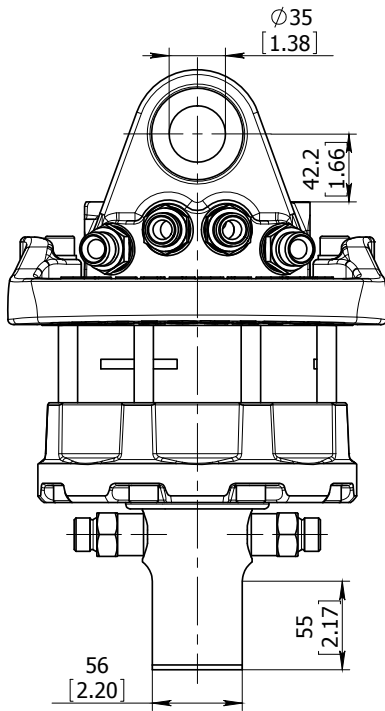
Rotation	Unlimited
Max axial load static, KN (lbf)	+60 (13491)
	-50 (11242)
Max axial load dynamic, KN (lbf)	+30 (6745)
	-25 (5621)
Torque at 25Mpa (3625psi), Nm (lb ft)	1600 (1180)
Rec oilflow, l/min (US gallon)	25 (6.6)
Weight, kg (lb)	38 (84)

Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	G 1/2
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)	G 1/2
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/2

Connection:

ROTATOR GR60DB



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	+60 (13491)
	-50 (11242)
Max axial load dynamic, KN (lbf)	+30 (6745)
	-25 (5621)
Torque at 25Mpa (3625psi), Nm (lb ft)	1800 (1328)
Rec oilflow, l/min (US gallon)	25 (6.6)
Weight, kg (lb)	36 (79)

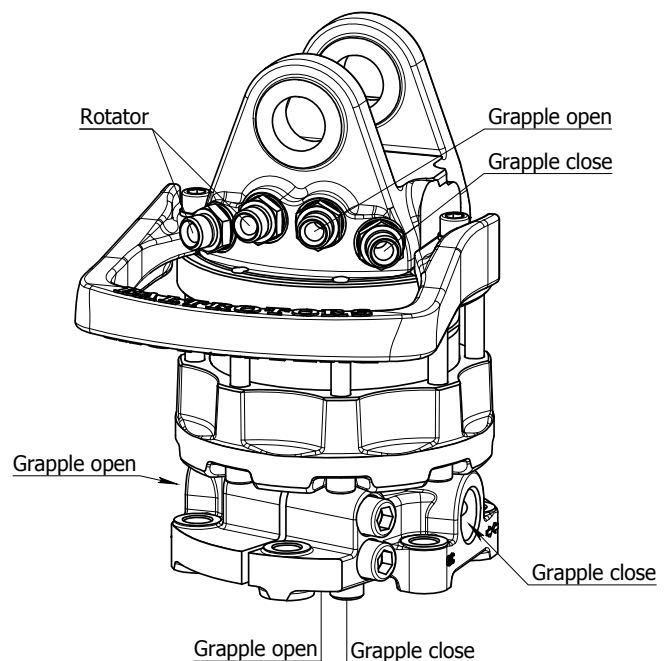
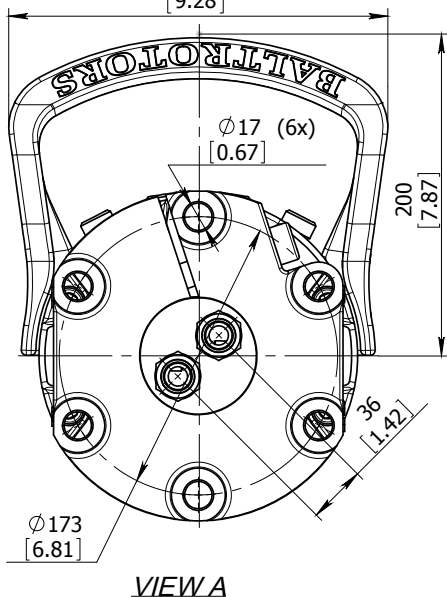
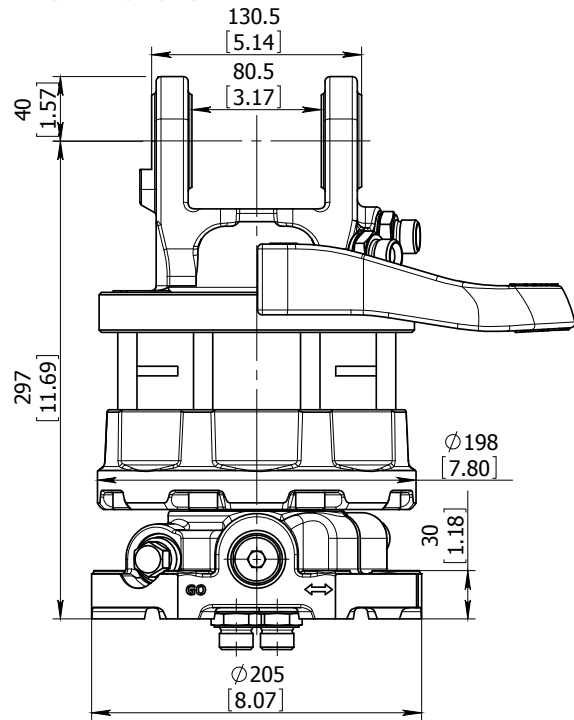
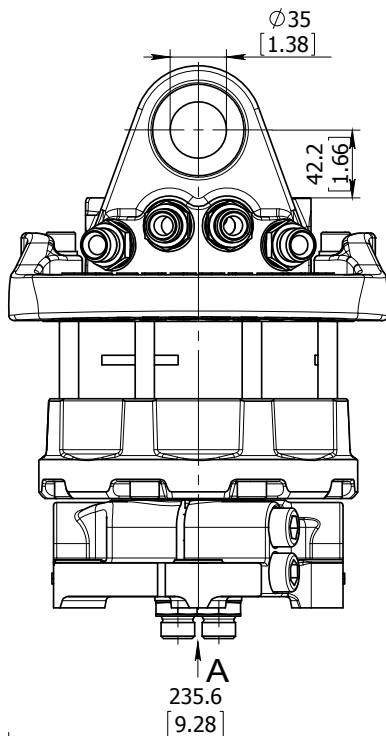
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	G 1/2"
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)	G 1/2"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/2"

Connection:

	G 1/2"
	G 1/2"
	G 1/2"

ROTATOR GR603



Technical data

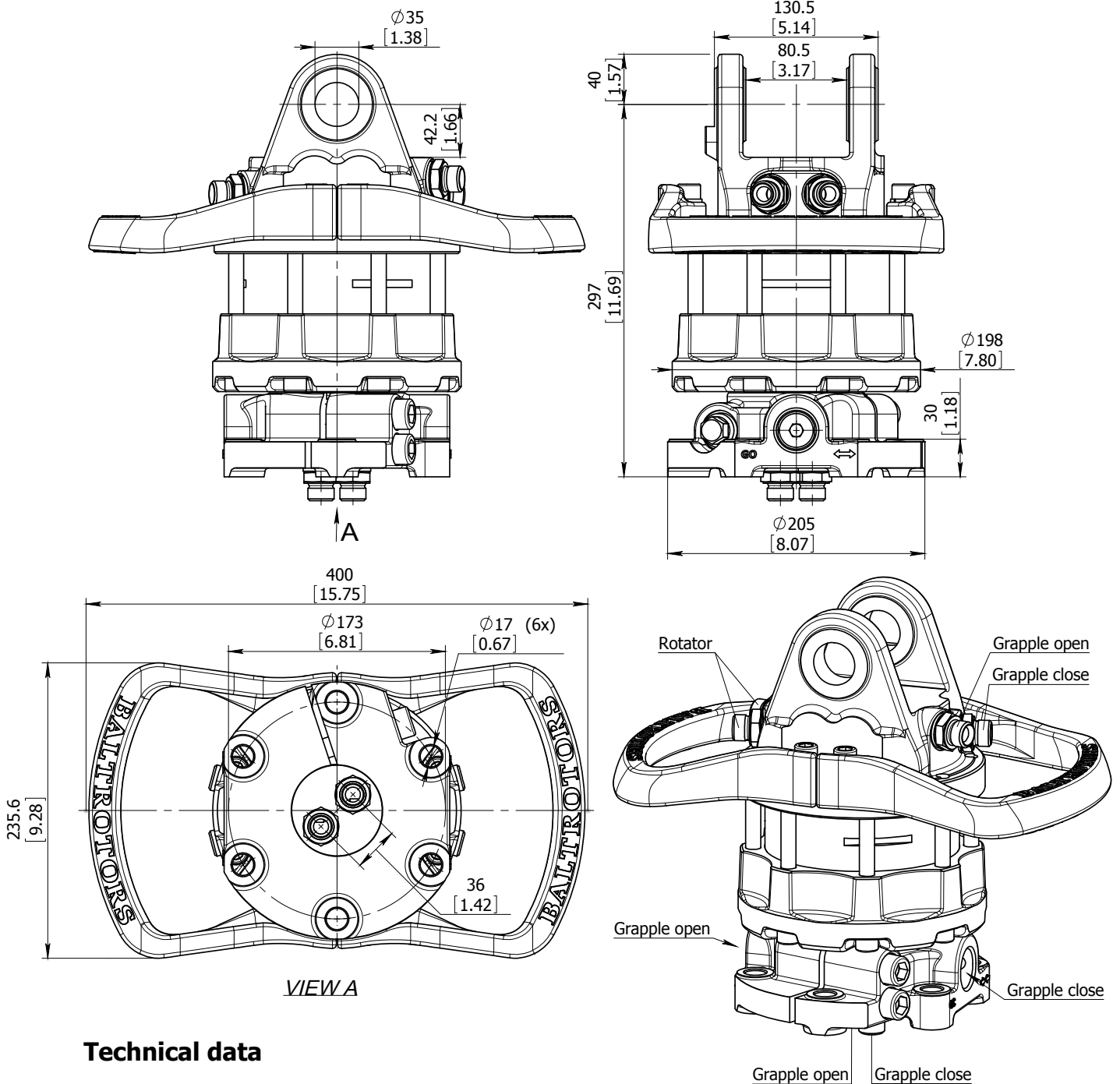
Rotation	Unlimited
Max axial load static, KN (lbf)	60 (13491)
Max axial load dynamic, KN (lbf)	30 (6745)
Torque at 25Mpa (3625psi), Nm (lb ft)	1800 (1328)
Rec oilflow, l/min (US gallon)	25 (6.6)
Weight, kg (lb)	43 (95)

Max working pressure:

Rotator	↔R↔	Max 25 MPa (3625 psi)	G 1/2"
Grapple / Tool open	↔G↔	Max 20 MPa (2900 psi)	G 1/2"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/2"

Connection:

ROTATOR GR603-2



Technical data

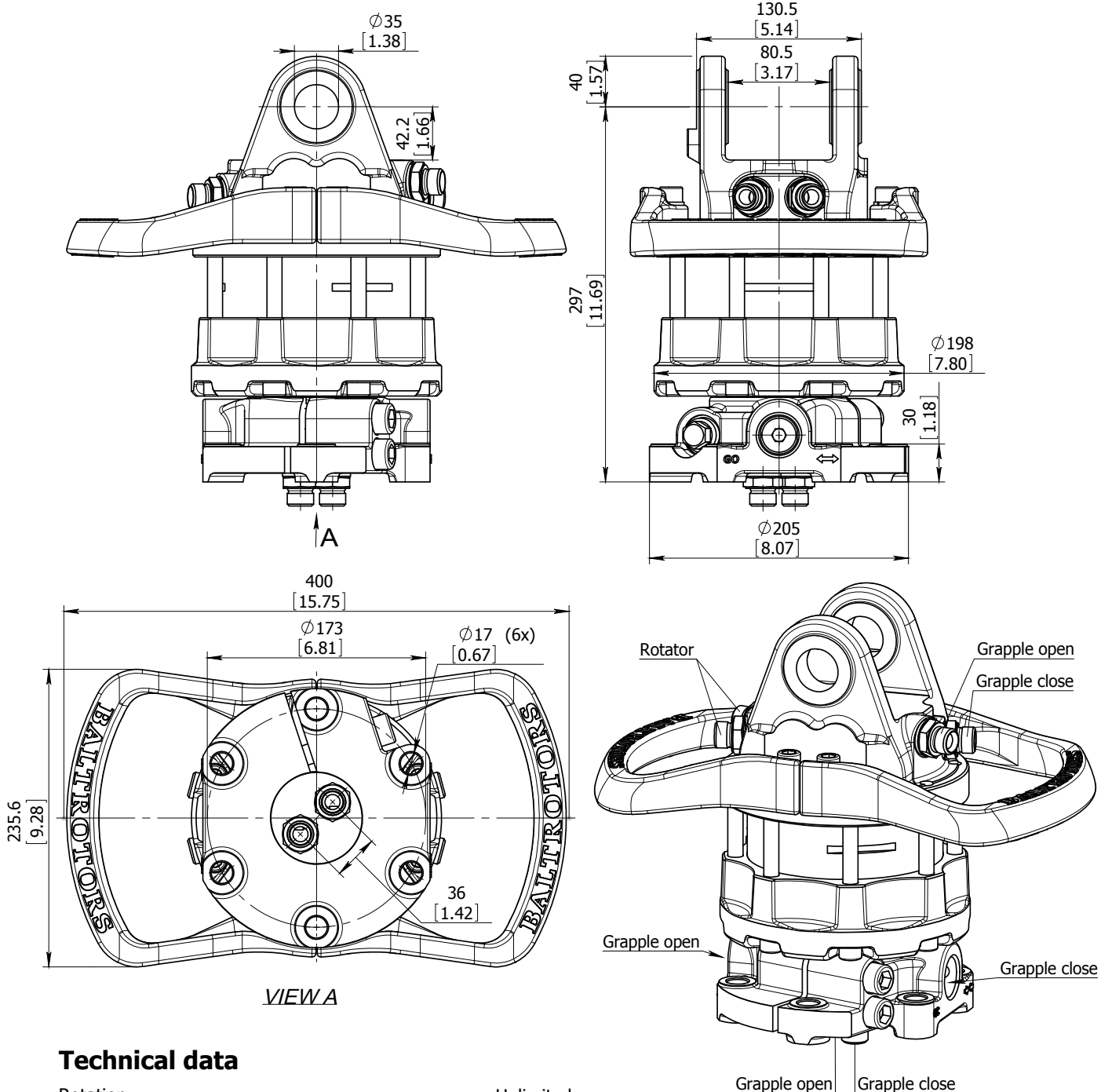
Rotation	Unlimited
Max axial load static, KN (lbf)	60 (13491)
Max axial load dynamic, KN (lbf)	30 (6745)
Torque at 25Mpa (3625psi), Nm (lb ft)	1800 (1328)
Rec oilflow, l/min (US gallon)	25 (6.6)
Weight, kg (lb)	45 (100)

Max working pressure:

Rotator	↔R↔	Max 25 MPa (3625 psi)	G 1/2"
Grapple / Tool open	↔G↔	Max 20 MPa (2900 psi)	G 1/2"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/2"

Connection:

ROTATOR GR603-2DB



Technical data

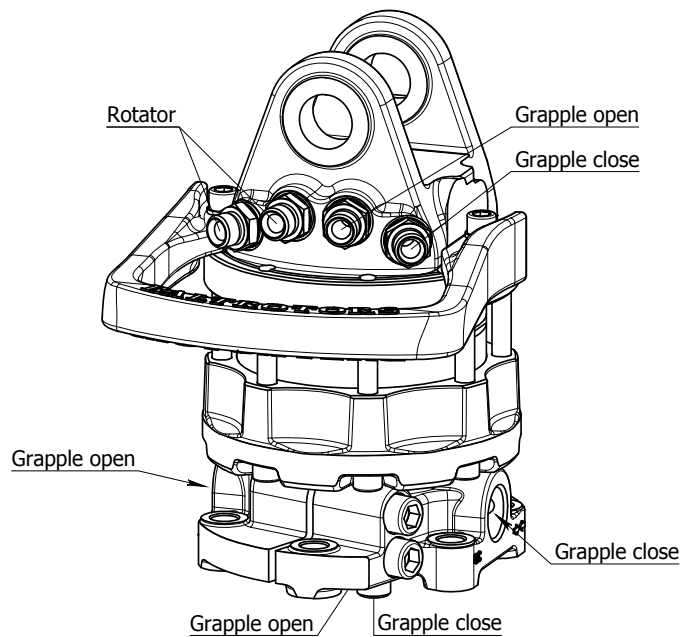
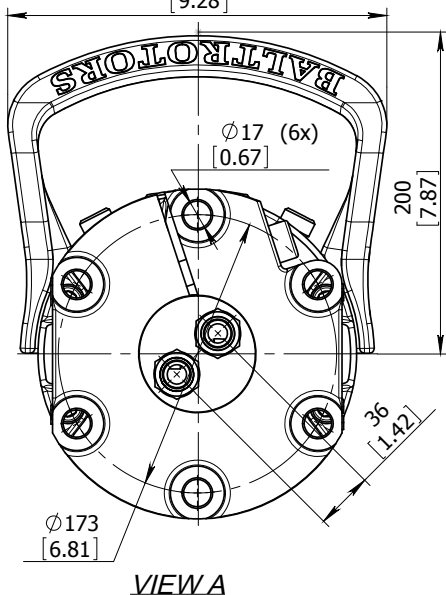
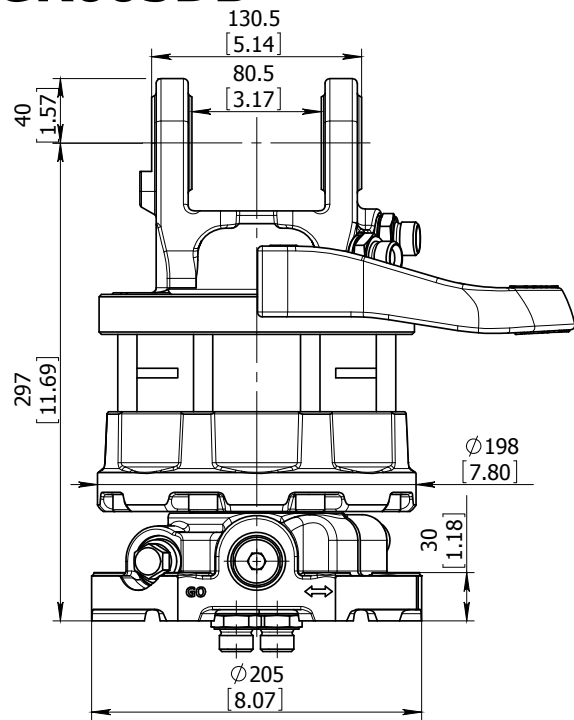
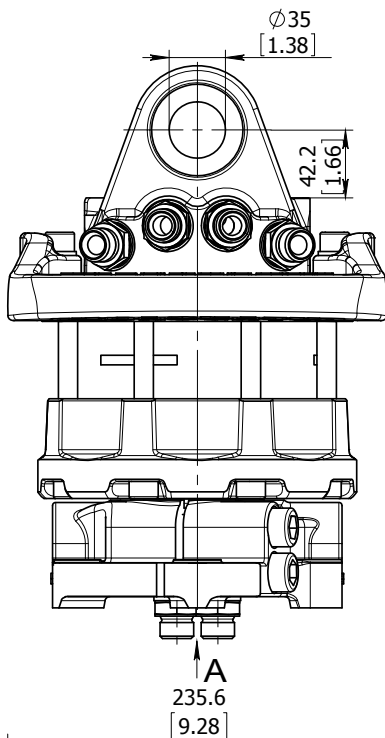
Rotation	Unlimited
Max axial load static, KN (lbf)	+60 (13491)
	-50 (11242)
Max axial load dynamic, KN (lbf)	+30 (6745)
	-25 (5621)
Torque at 25Mpa (3625psi), Nm (lb ft)	1800 (1328)
Rec oilflow, l/min (US gallon)	25 (6.6)
Weight, kg (lb)	46 (101)

Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	G 1/2"
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)	G 1/2"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/2"

Connection:

ROTATOR GR603DB



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	+60 (13491) -50 (11242)
Max axial load dynamic, KN (lbf)	+30 (6745) -25 (5621)
Torque at 25Mpa (3625psi), Nm (lb ft)	1800 (1328)
Rec oilflow, l/min (US gallon)	25 (6.6)
Weight, kg (lb)	43 (95)

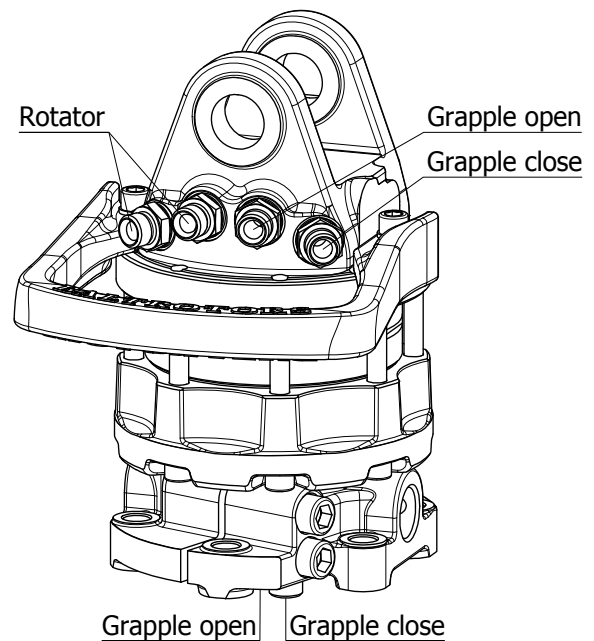
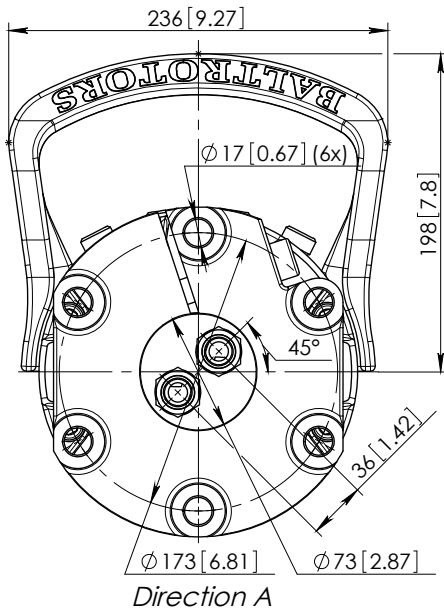
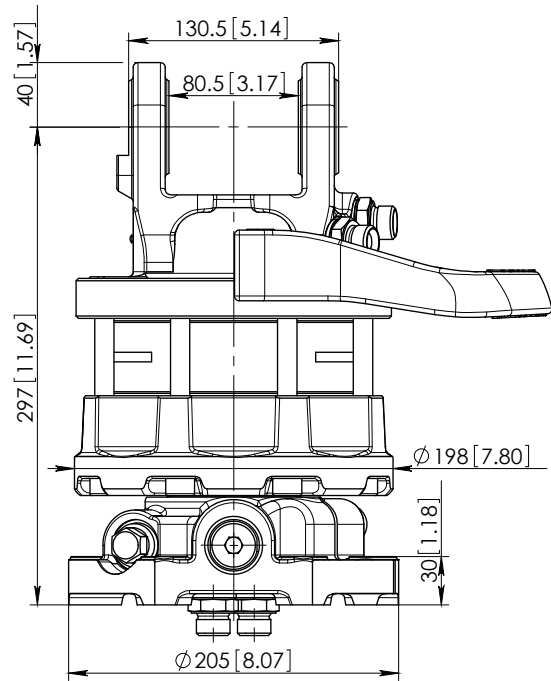
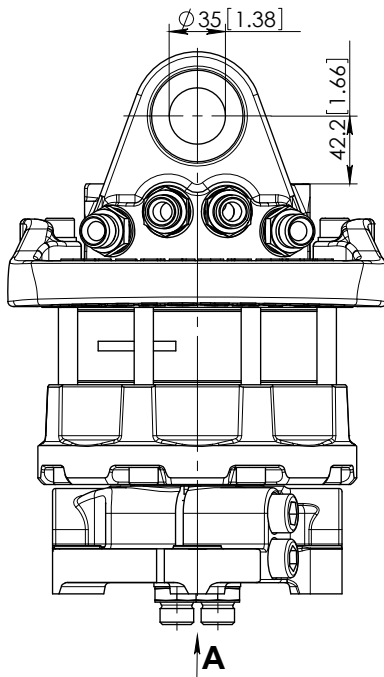
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)

Connection:

G 1/2"
G 1/2"
G 1/2"

ROTATOR GR623



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	+60 (13491) - 50 (11242)
Max axial load dynamic, KN (lbf)	+30 (6745) - 25 (5621)
Torque at 25Mpa (3625psi), Nm (lb ft)	2400 (1770)
Rec oilflow, l/min (US gallon)	28 (7.4)
Weight, kg (lb)	44 (98)

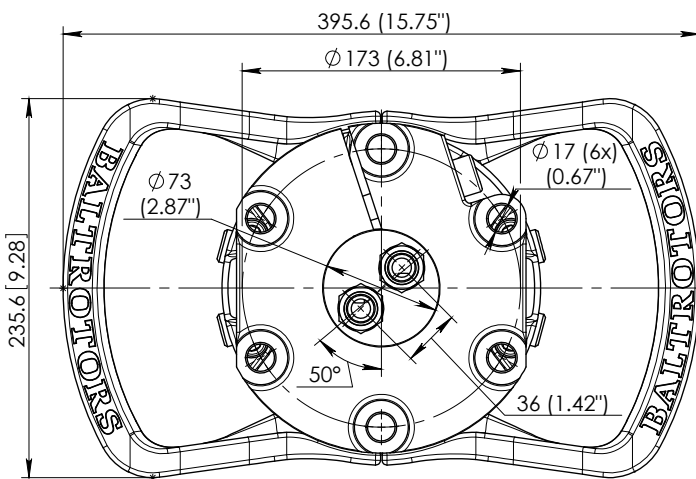
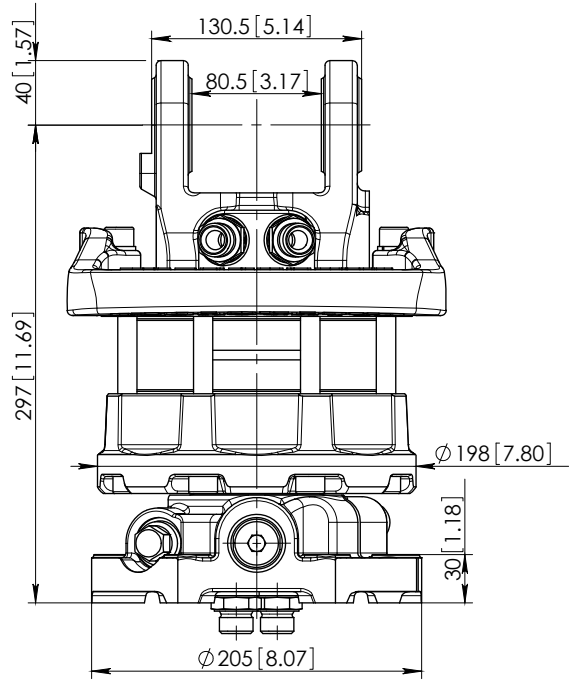
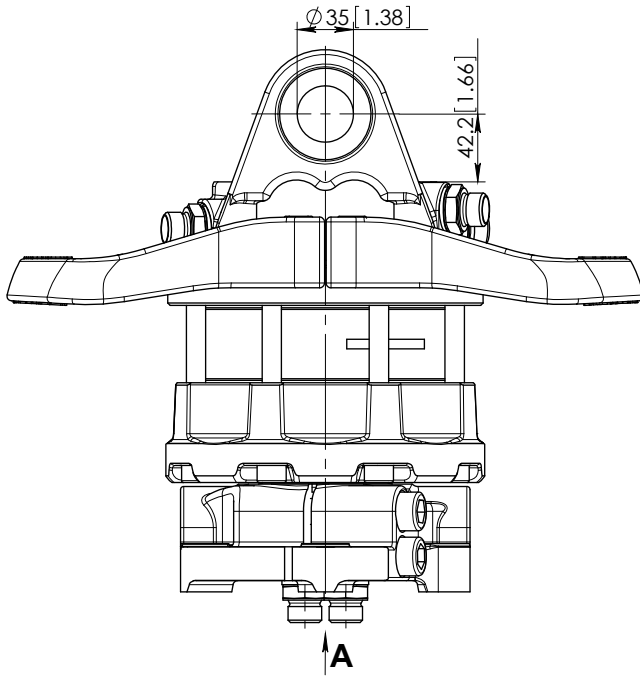
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	G 1/2"
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)	G 1/2"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/2"

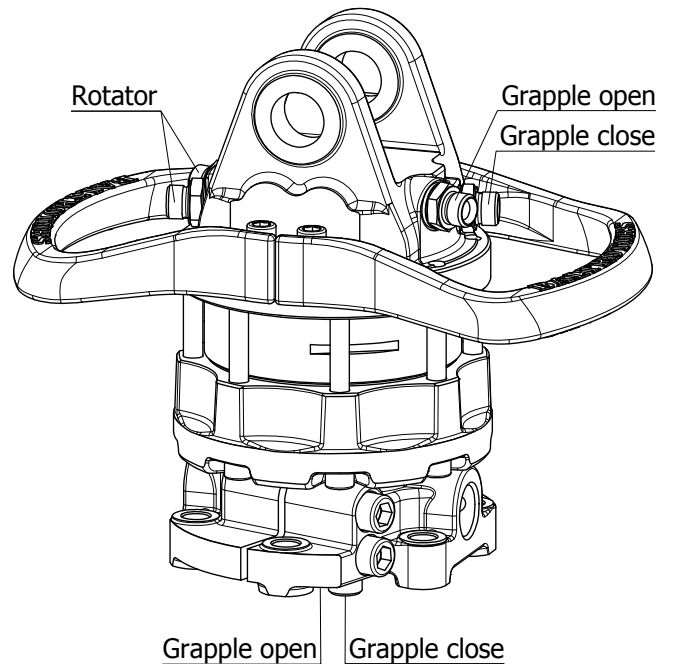
Connection:

Rotator	G 1/2"
Grapple / Tool open	G 1/2"
Grapple / Tool close	G 1/2"

ROTATOR GR623-2



Direction A



Technical data

Rotation	Unlimited
Max axial load static, kN (lbf)	+60 (13491) - 50 (11242)
Max axial load dynamic, kN (lbf)	+30 (6745) - 25 (5621)
Torque at 25MPa (3625psi), Nm (lb ft)	2400 (1770)
Rec oilflow, l/min (US gallon)	28 (7.4)
Weight, kg (lb)	46 (102)

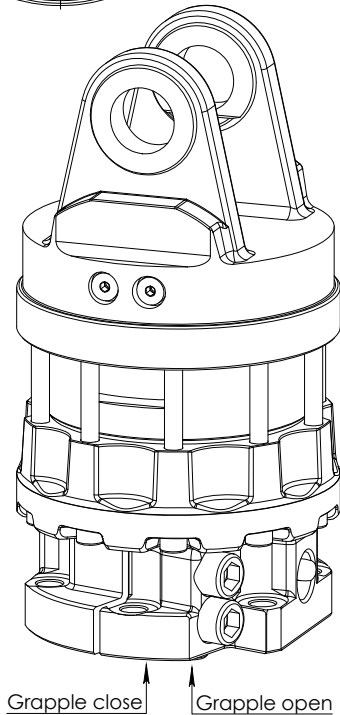
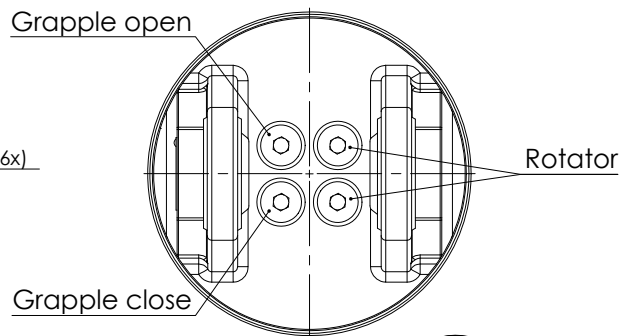
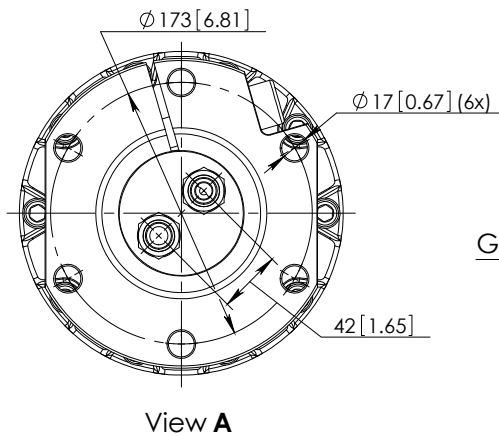
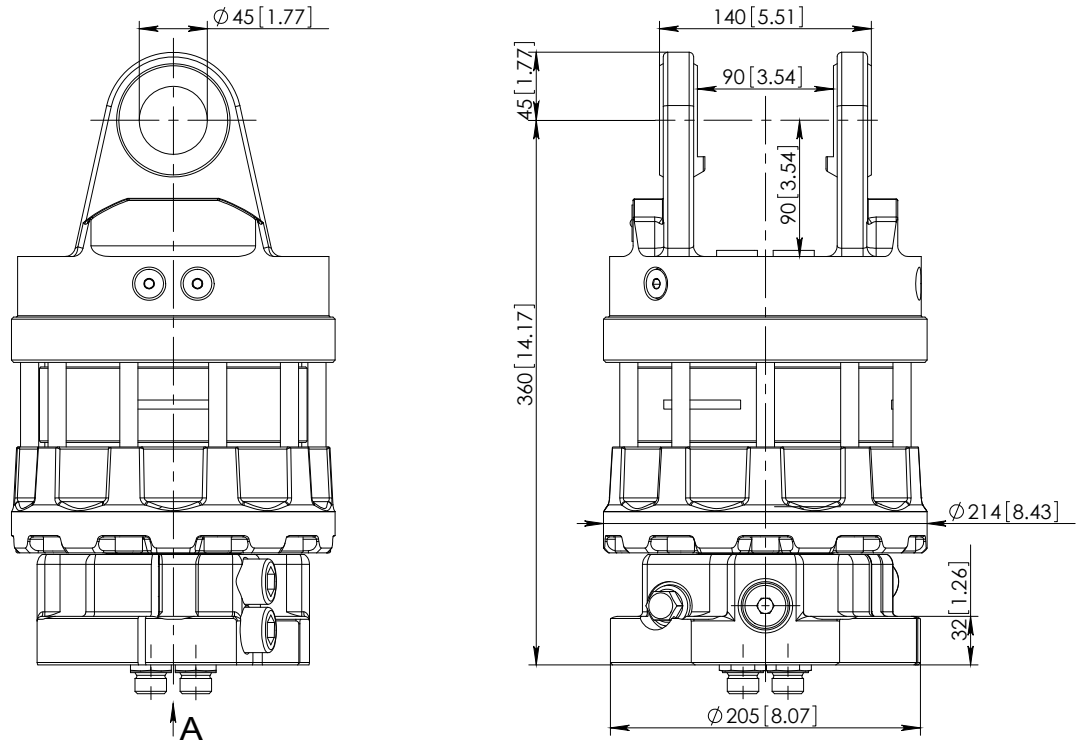
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)

Connection:

G 1/2"
G 1/2"
G 1/2"

ROTATOR GR104-03



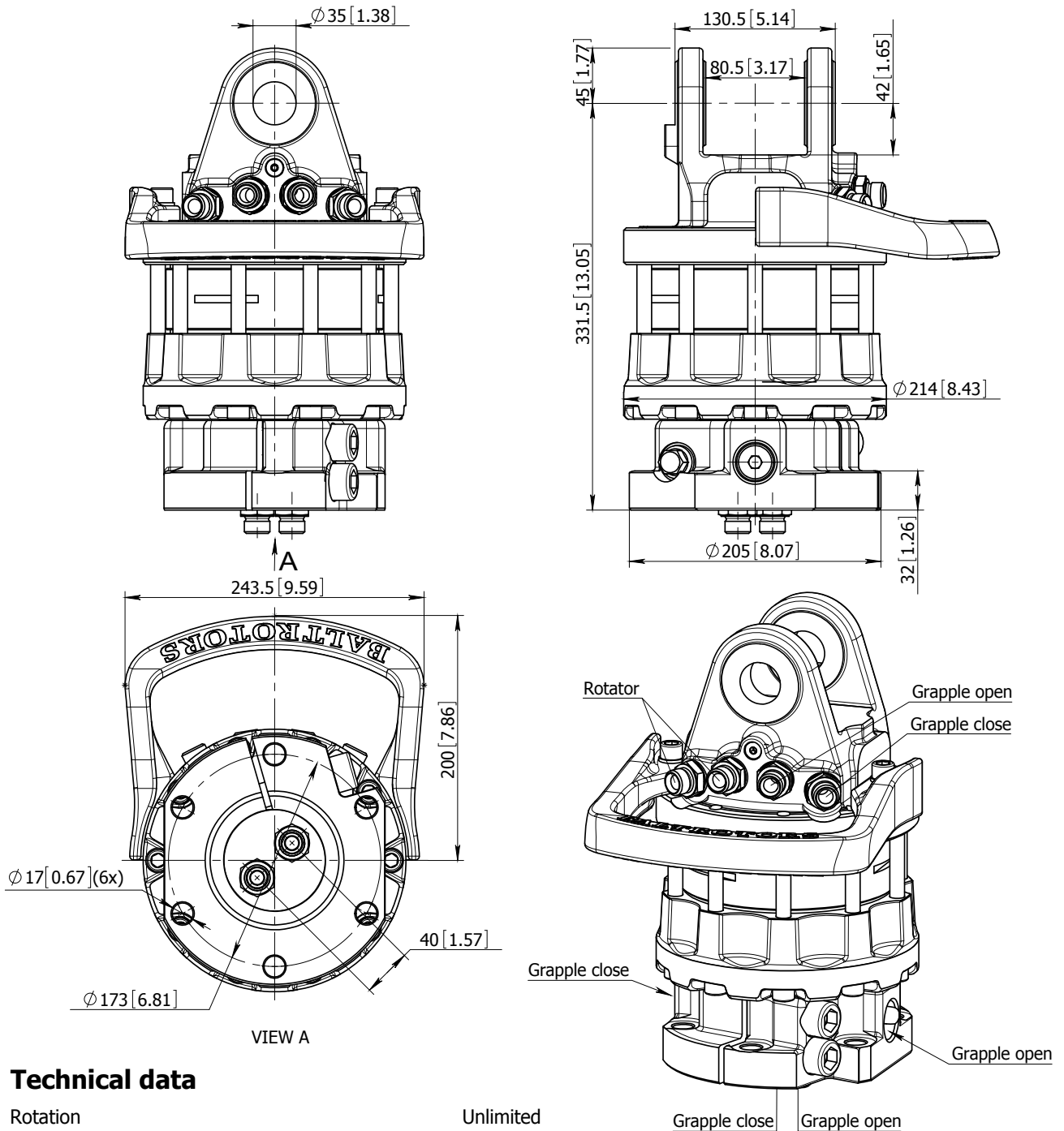
Technical data

Rotation	Unlimited
Max axial load static	+100 kN [22485 lbf] - 80 kN [17985 lbf]
Max axial load dynamic	+50 kN [11242 lbf] - 40 kN [8992 lbf]
Torque at 25Mpa [3625psi]	2500 Nm [1844 lb ft]
Weight	61 kg [134 lb]

Function	Max working pressure	Rec oilflow	Connection
R - rotation	25 MPa [3625 psi]	30 l/min [7.9 gal(US)/min]	G 1/2"
GO - grapple/tool open	30 MPa [4350 psi]		G 1/2"
GC - grapple/tool close	30 MPa [4350 psi]		G 1/2"

2011.07.22. Sheet 1 of 3

ROTATOR GR104DB



Technical data

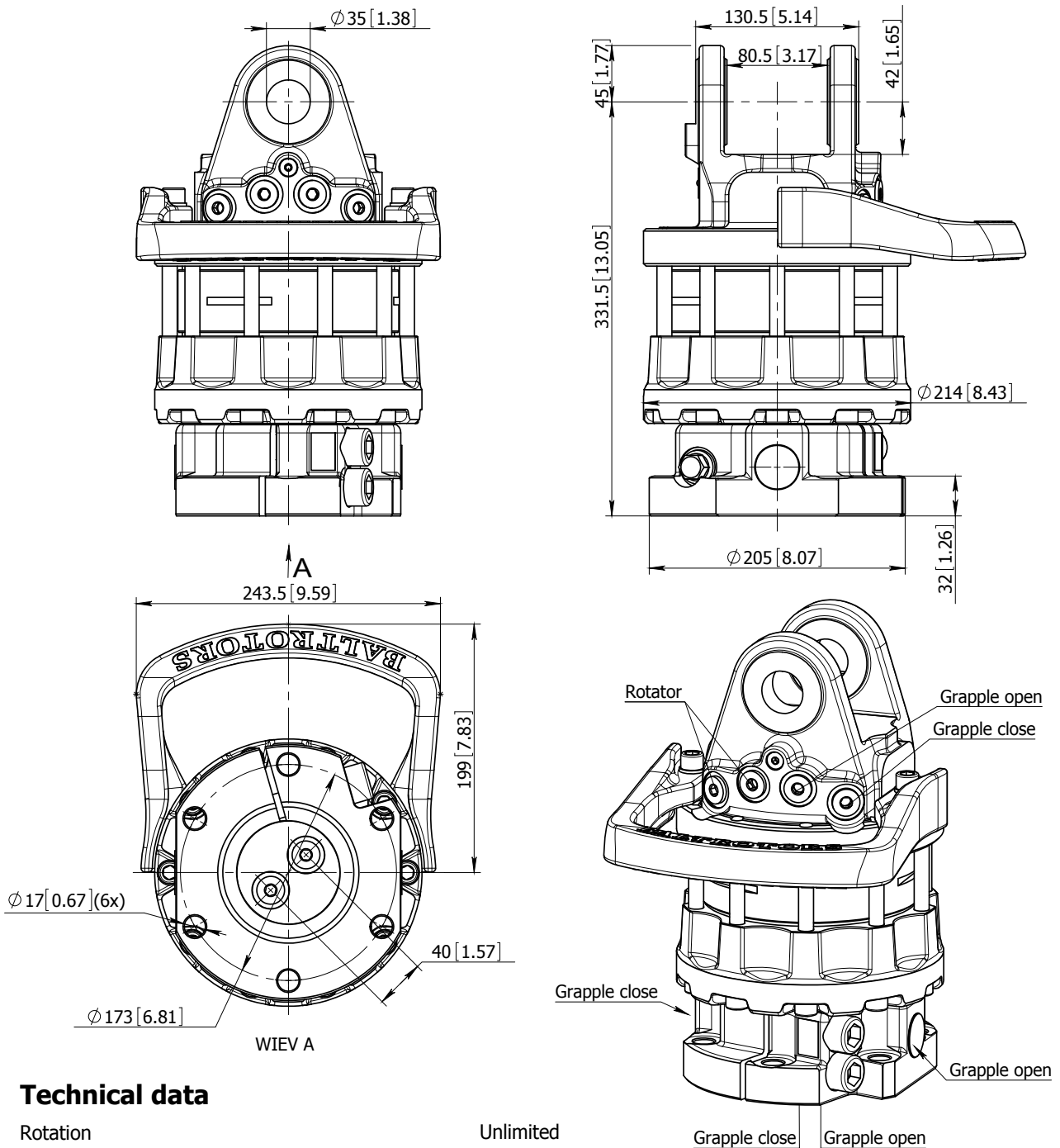
Rotation	Unlimited
Max axial load static, KN (lbf)	+100 (22485) - 80 (17985)
Max axial load dynamic, KN (lbf)	+50 (11242) - 40 (8992)
Torque at 25Mpa (3625psi), Nm (lb ft)	2500 (1844)
Rec oilflow, l/min (US gallon)	30 (7.9)
Weight, kg (lb)	59 (130)

Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	G 1/2"
Grapple / Tool open	←G→	Max 30 MPa (4350 psi)	G 1/2"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/2"

Connection:

ROTATOR GR104DBC



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	+100 (22485) - 80 (17985)
Max axial load dynamic, KN (lbf)	+50 (11242) - 40 (8992)
Torque at 25Mpa (3625psi), Nm (lb ft)	2500 (1844)
Rec oilflow, l/min (US gallon)	30 (7.9)
Weight, kg (lb)	58 (128)

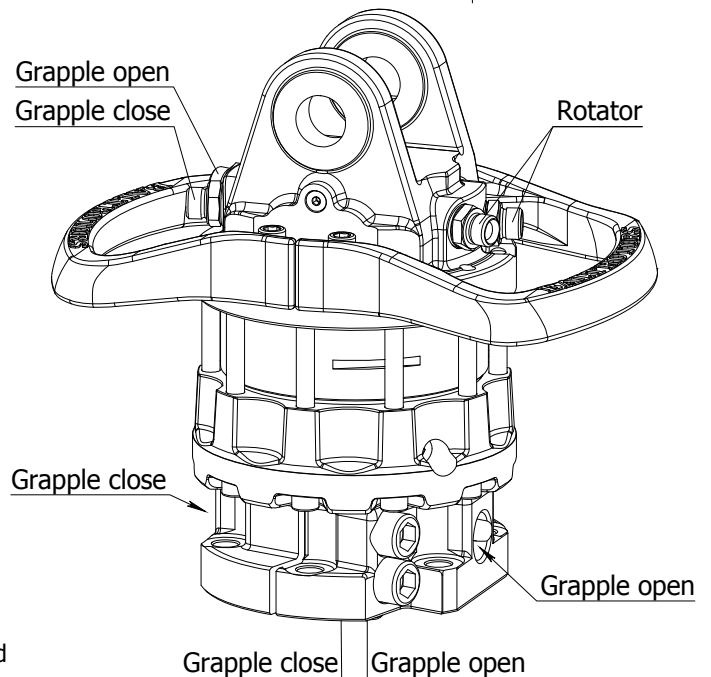
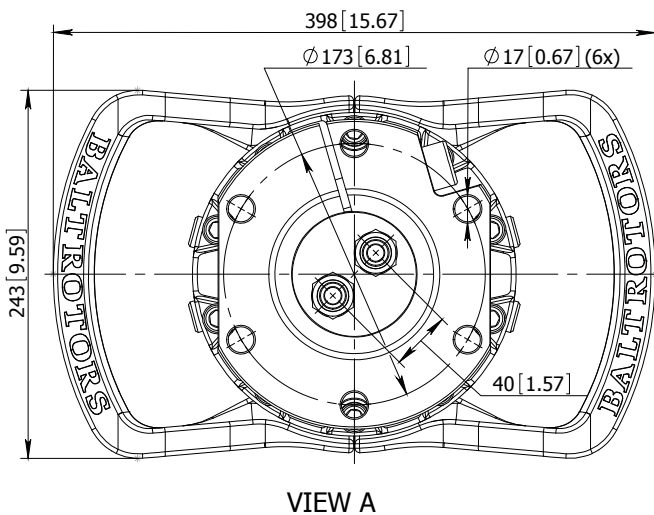
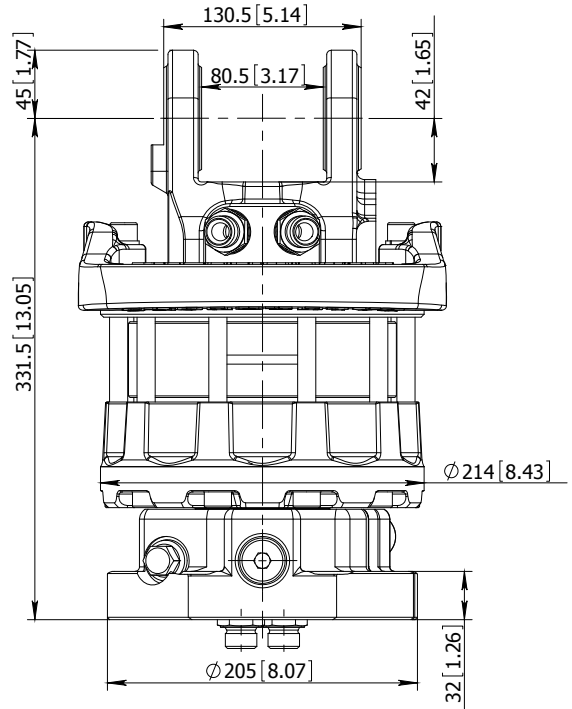
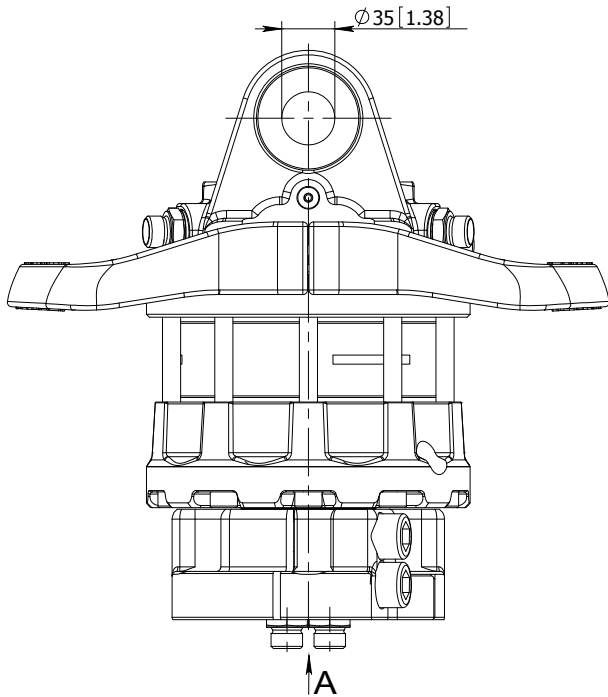
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	3/4"-16 UNF 2B (SAE 8)
Grapple / Tool open	←G→	Max 30 MPa (4350 psi)	3/4"-16 UNF 2B (SAE 8)
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	3/4"-16 UNF 2B (SAE 8)

Connection:

Sheet 1 of 3
2012.05.16.

ROTATOR GR105DB



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	+100 (22485) - 80 (17985)
Max axial load dynamic, KN (lbf)	+50 (11242) - 40 (8992)
Torque at 25Mpa (3625psi), Nm (lb ft)	2500 (1844)
Rec oilflow, l/min (US gallon)	30 (7.9)
Weight, kg (lb)	62 (137)

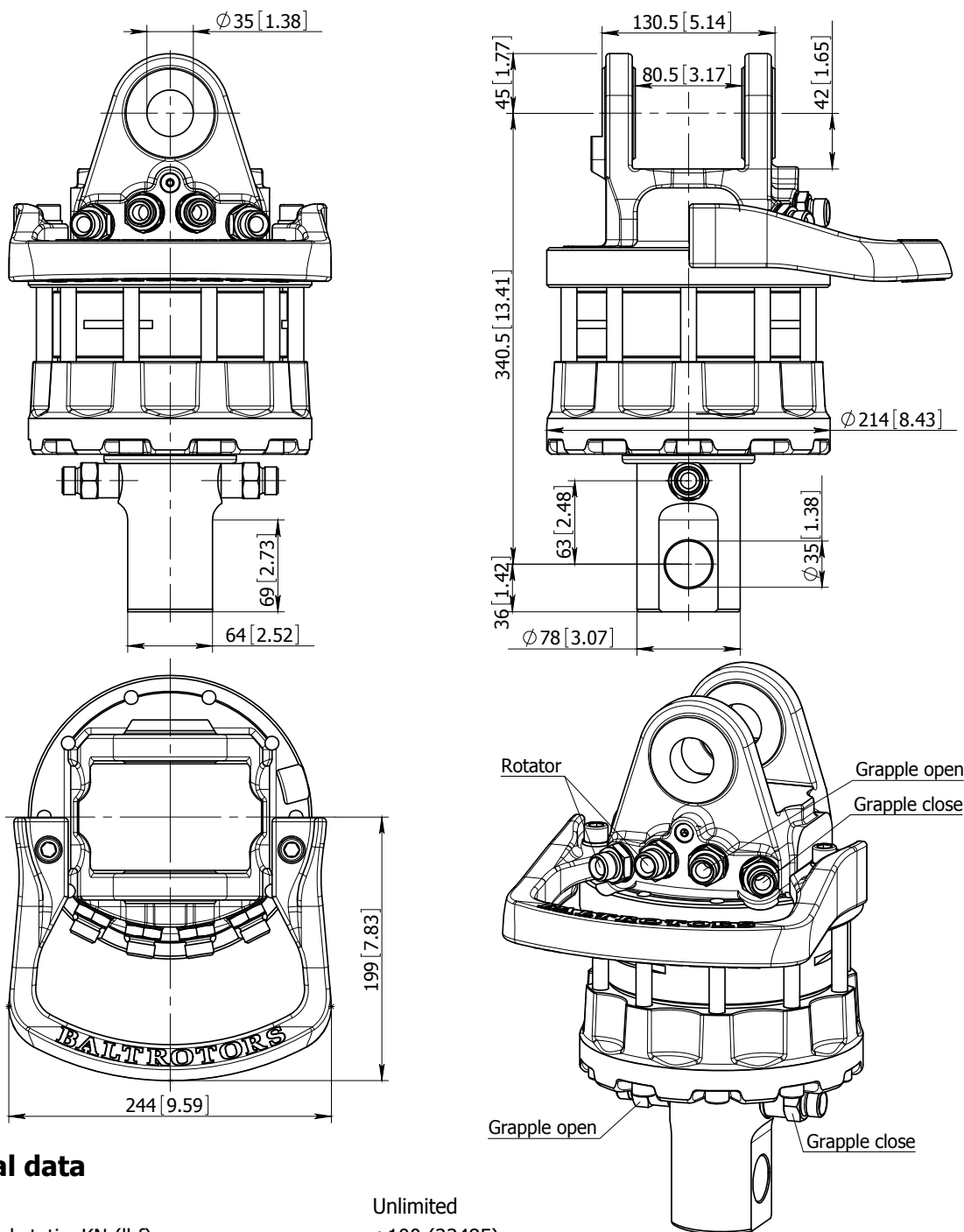
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	G 1/2"
Grapple / Tool open	←G→	Max 30 MPa (4350 psi)	G 1/2"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/2"

Connection:

Sheet 1 of 3
2011.07.18.

ROTATOR GR110-1DB



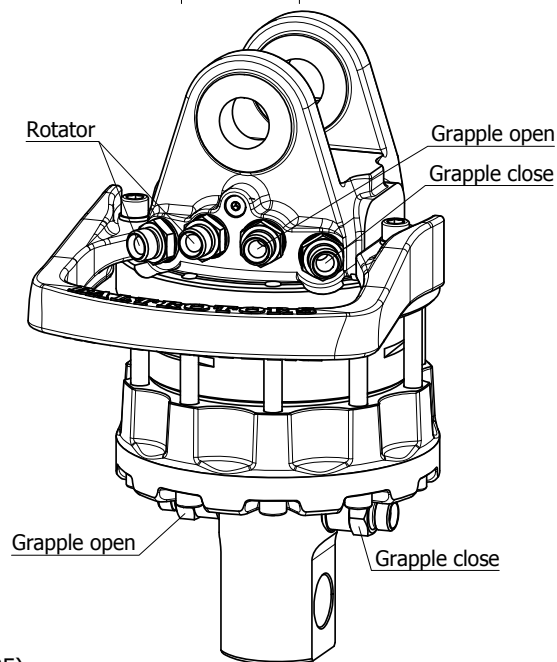
Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	+100 (22485)
	- 80 (17985)
Max axial load dynamic, KN (lbf)	+50 (11242)
	- 40 (8992)
Torque at 25Mpa (3625psi), Nm (lb ft)	2500 (1844)
Rec oilflow, l/min (US gallon)	30 (7.9)
Weight, kg (lb)	50 (111)

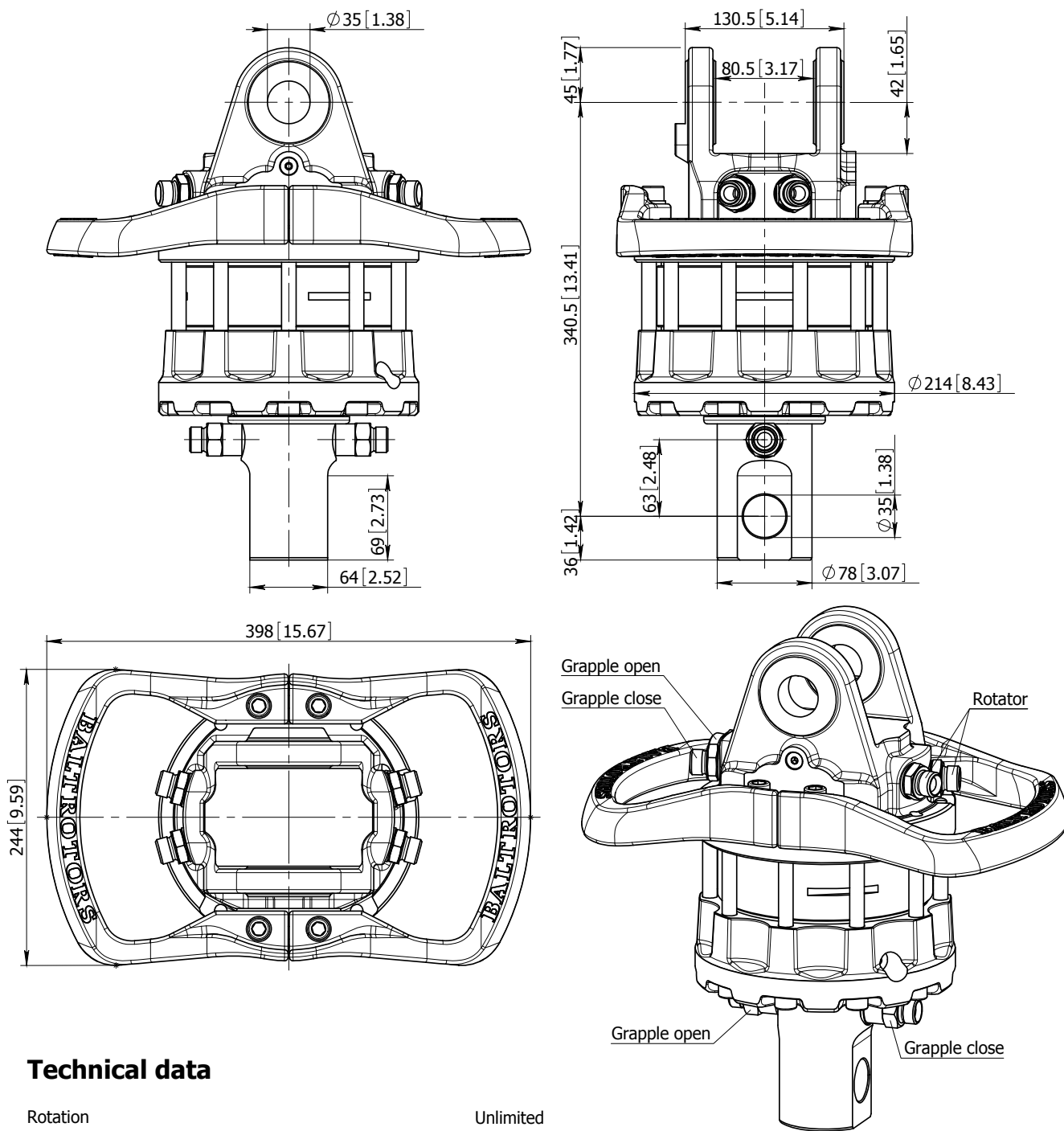
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	G 1/2"
Grapple / Tool open	←G→	Max 30 MPa (4350 psi)	G 1/2"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/2"

Connection:



ROTATOR GR110-2DB



Technical data

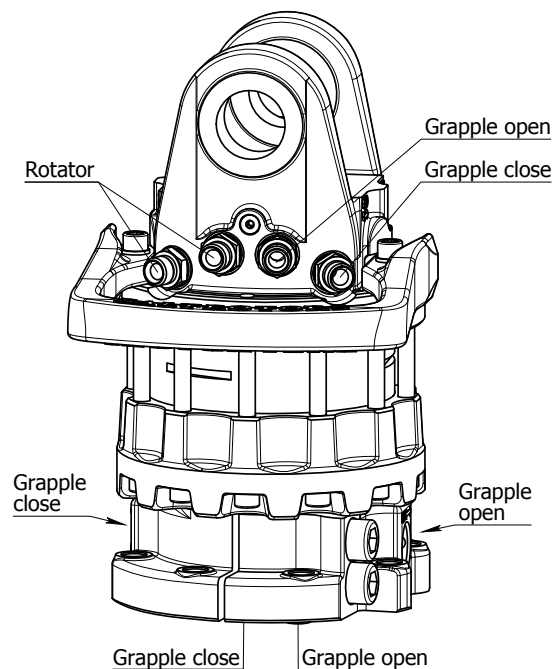
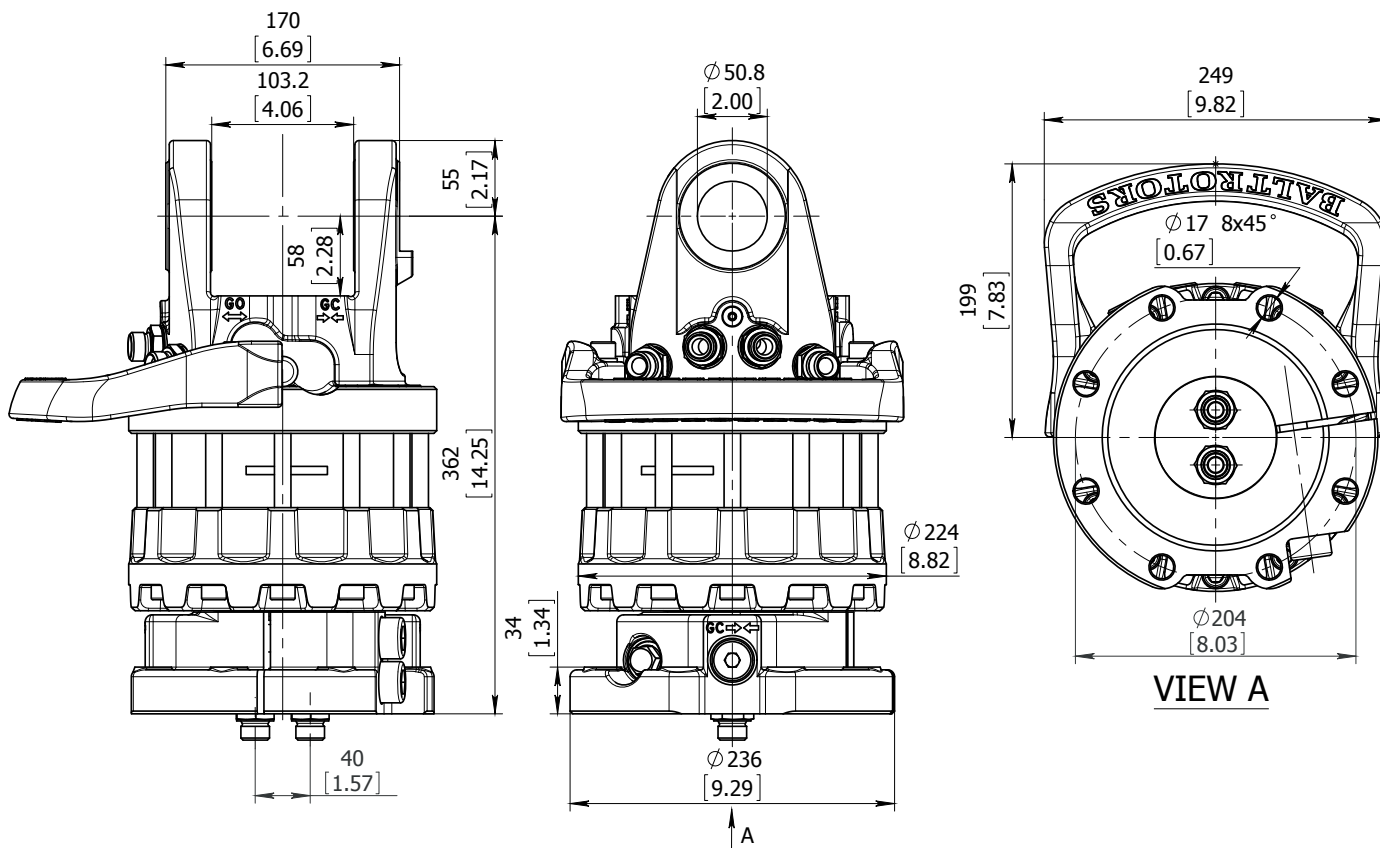
Rotation	Unlimited
Max axial load static, KN (lbf)	+100 (22485) -80 (17985)
Max axial load dynamic, KN (lbf)	+50 (11242) -40 (8992)
Torque at 25Mpa (3625psi), Nm (lb ft)	2500 (1844)
Rec oilflow, l/min (US gallon)	30 (7.9)
Weight, kg (lb)	54 (120)

Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	G 1/2"
Grapple / Tool open	←G→	Max 30 MPa (4350 psi)	G 1/2"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/2"

Connection:

ROTATOR GR12A8



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	+120 (26982) - 90 (20236)
Max axial load dynamic, KN (lbf)	+60 (13491) - 45 (10118)
Torque at 25Mpa (3625psi), Nm (lb ft)	2900 (2139)
Rec oilflow, l/min (US gallon)	35 (9.25)
Weight, kg (lb)	73 (161)

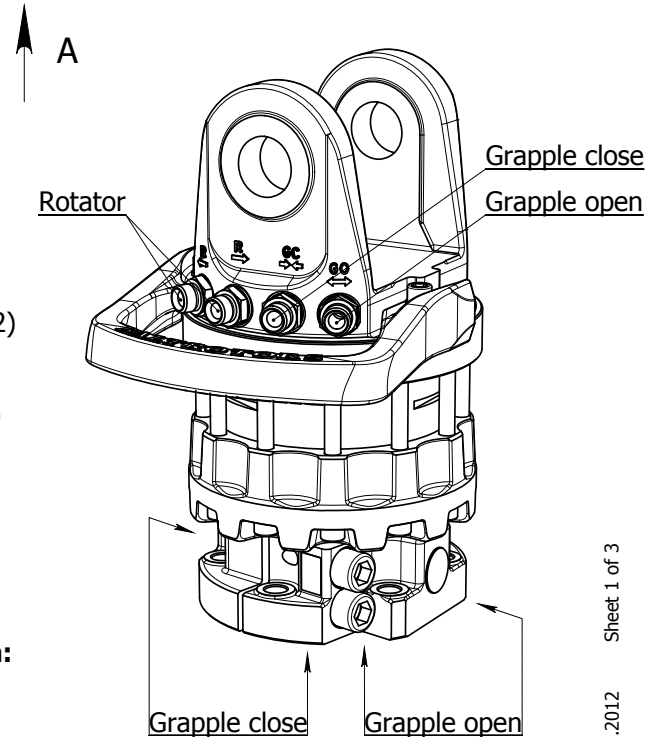
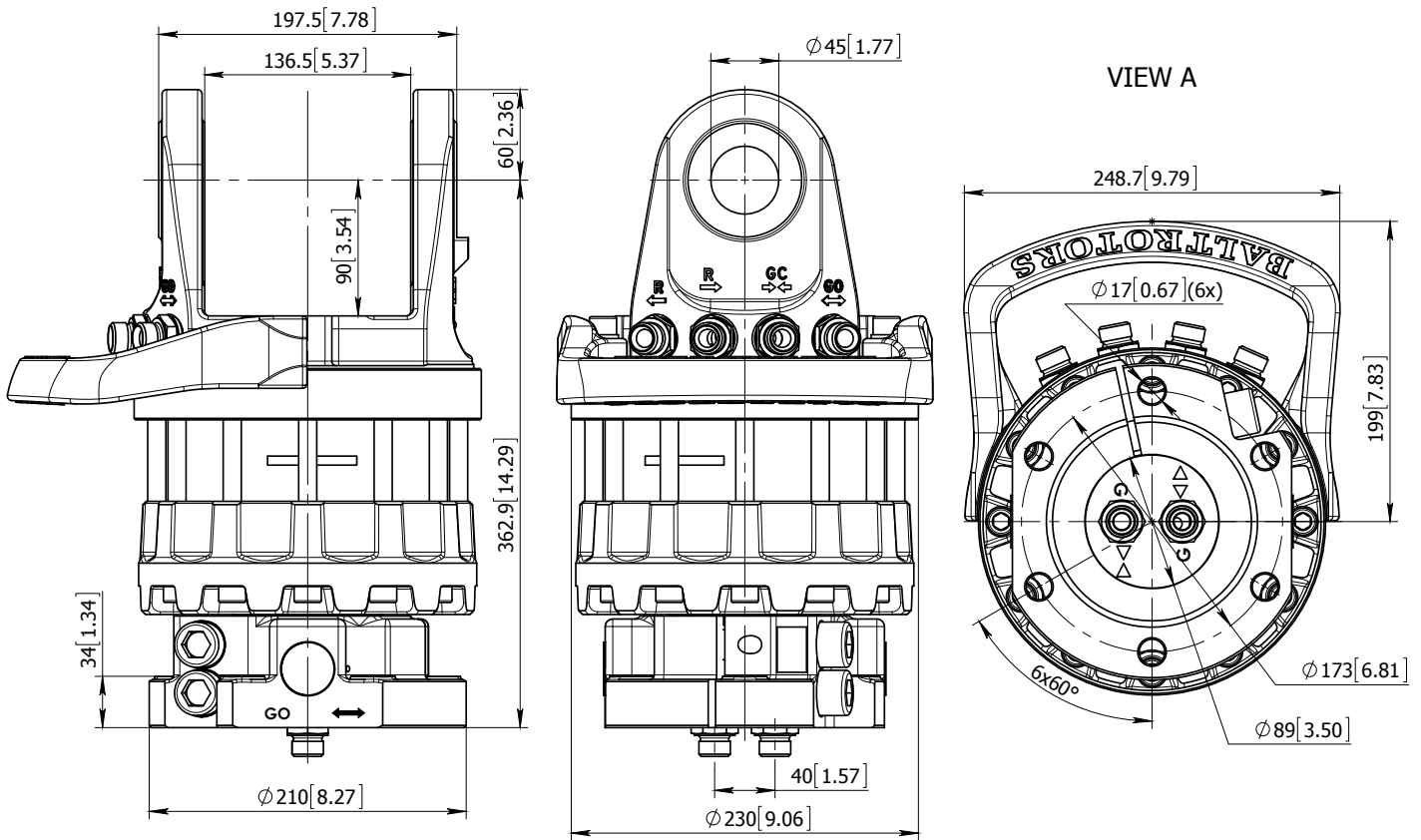
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)
Grapple / Tool open	←G→	Max 30 MPa (4350 psi)
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)

Connection:

G 1/2
G 1/2
G 1/2

ROTATOR GR12H



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	+120 (26982) - 90 (20236)
Max axial load dynamic, KN (lbf)	+60 (13491) - 45 (10118)
Torque at 25Mpa (3625psi), Nm (lb ft)	2900 (2139)
Rec oilflow, l/min (US gallon)	35 (9.25)
Weight, kg (lb)	69 (152)

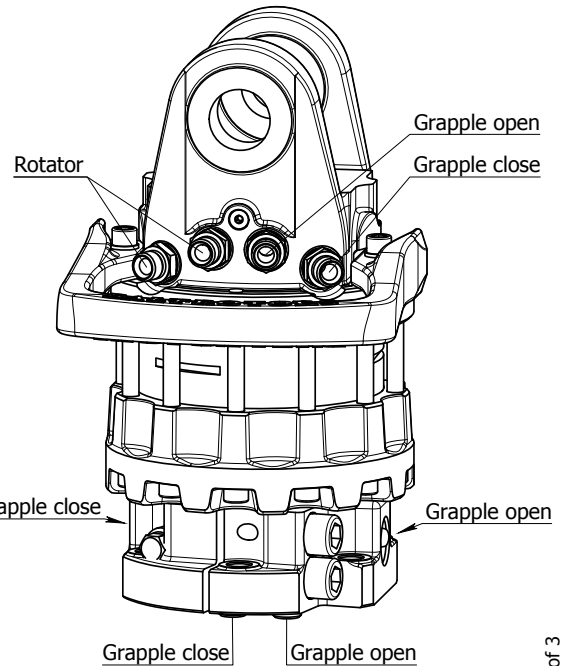
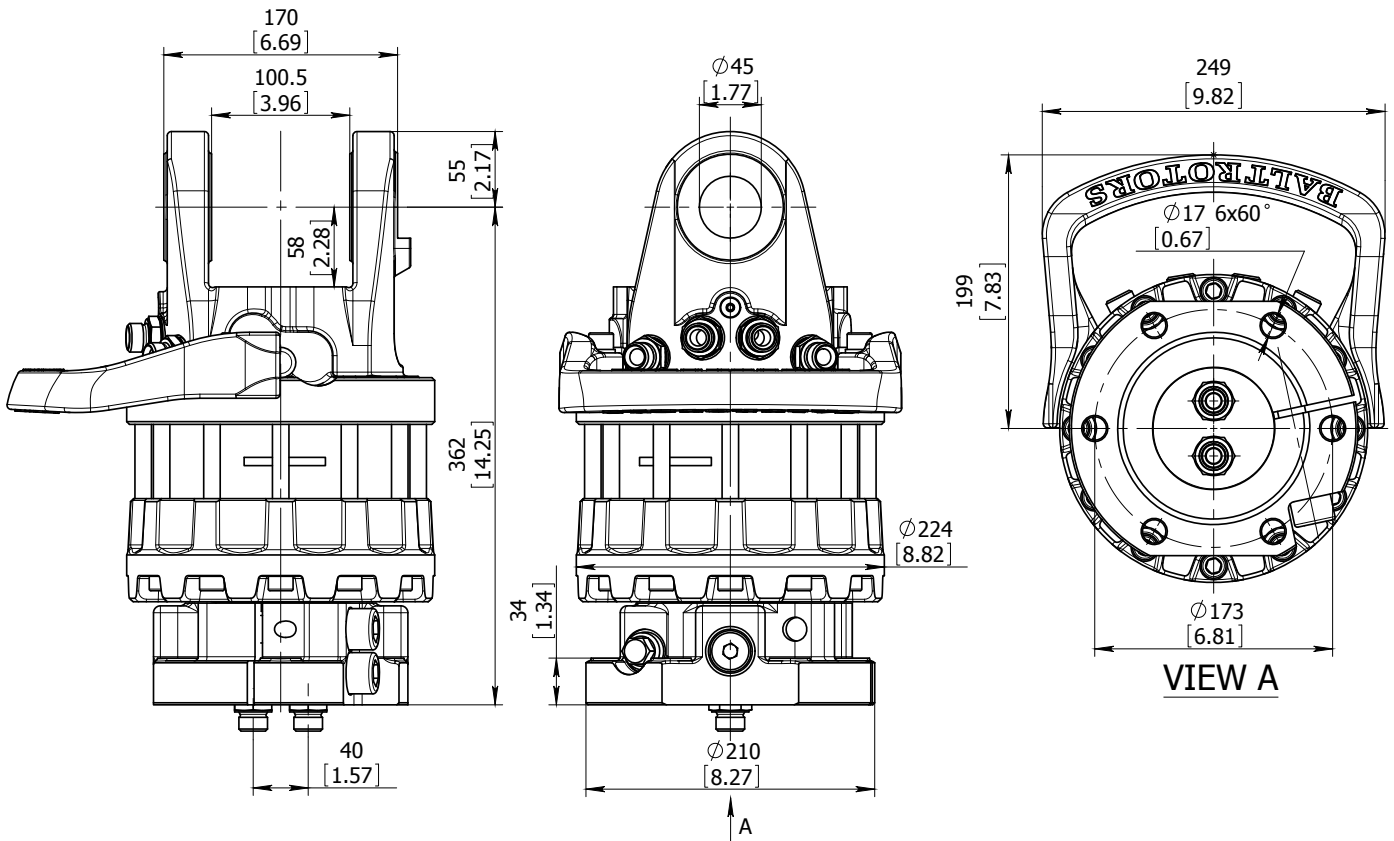
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	G 1/2
Grapple / Tool open	←G→	Max 25 MPa (3625 psi)	G 1/2
Grapple / Tool close	→G←	Max 25 MPa (3625 psi)	G 1/2

Connection:

G 1/2
G 1/2
G 1/2

ROTATOR GR12S



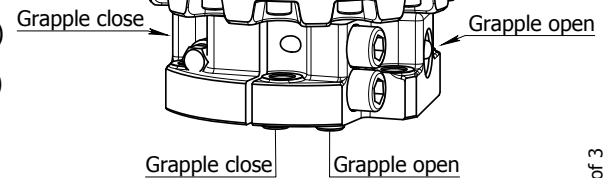
Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	+120 (26982) - 90 (20236)
Max axial load dynamic, KN (lbf)	+60 (13491) - 45 (10118)
Torque at 25Mpa (3625psi), Nm (lb ft)	2900 (2139)
Rec oilflow, l/min (US gallon)	35 (9.25)
Weight, kg (lb)	70 (154)

Max working pressure:

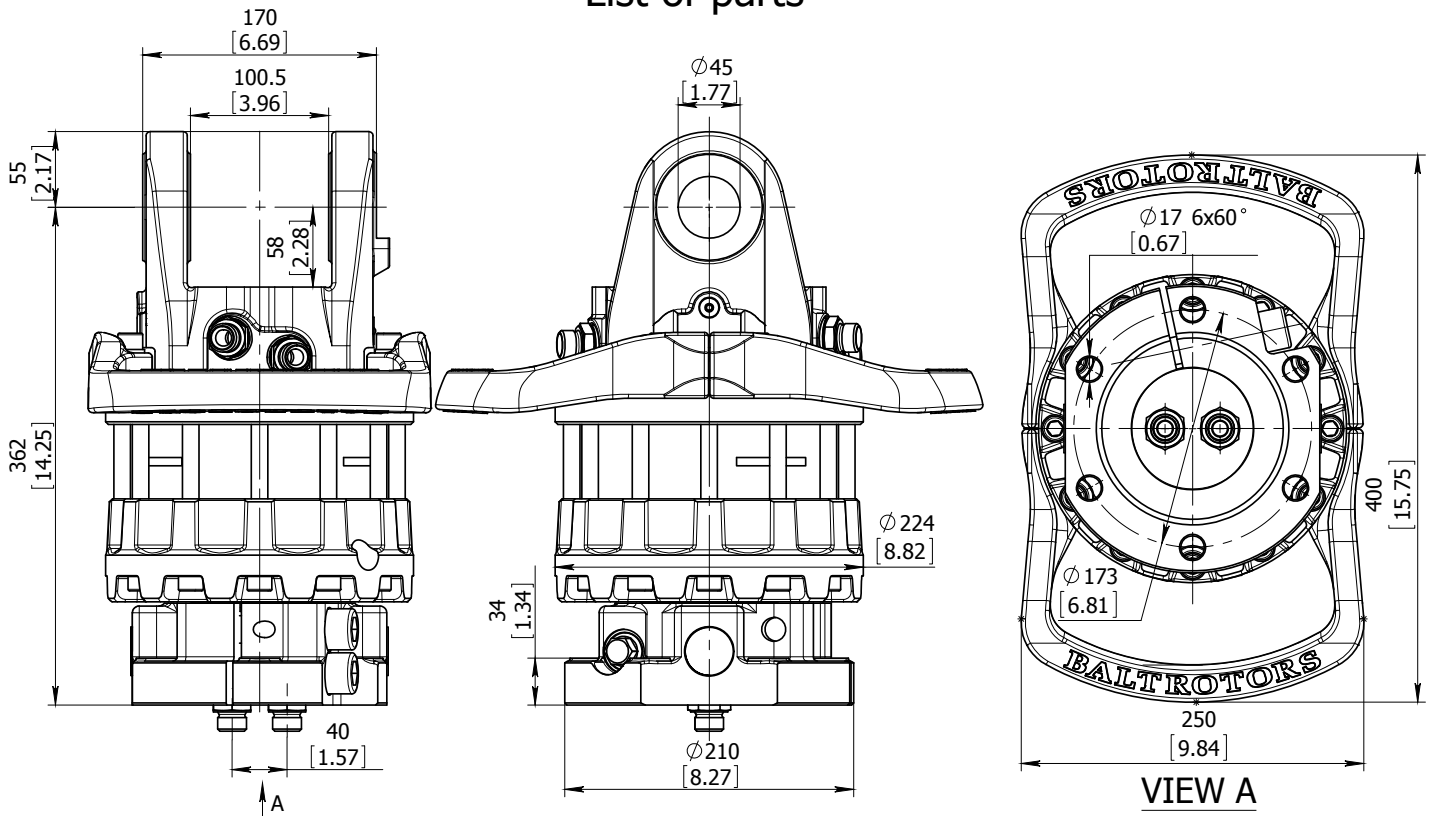
Rotator	←R→	Max 25 MPa (3625 psi)	G 1/2
Grapple / Tool open	←G→	Max 30 MPa (4350 psi)	G 1/2
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/2

Connection:



ROTATOR GR12S-2

List of parts



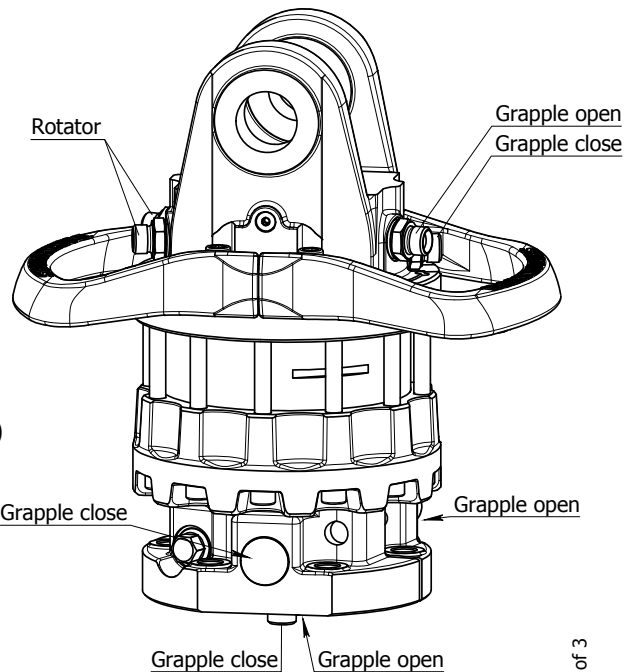
Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	+120 (26982) - 90 (20236)
Max axial load dynamic, KN (lbf)	+60 (13491) - 45 (10118)
Torque at 25Mpa (3625psi), Nm (lb ft)	2900 (2139)
Rec oilflow, l/min (US gallon)	35 (9.25)
Weight, kg (lb)	73 (160)

Max working pressure:

Rotator	$\leftarrow R \rightarrow$ Max 25 MPa (3625 psi)	G 1/2
Grapple / Tool open	$\leftarrow G \rightarrow$ Max 30 MPa (4350 psi)	G 1/2
Grapple / Tool close	$\rightarrow G \leftarrow$ Max 30 MPa (4350 psi)	G 1/2

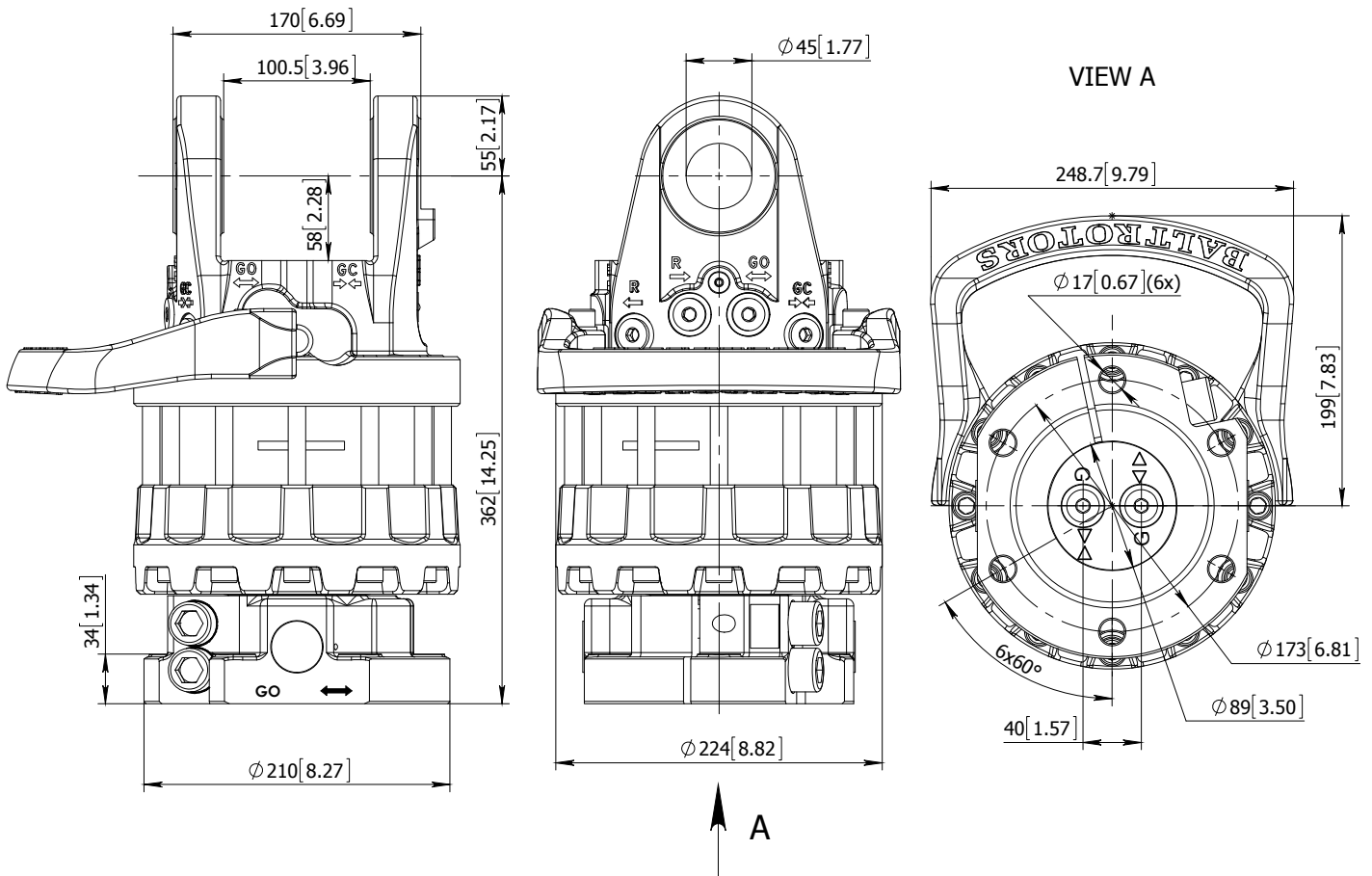
Connection:



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24.03.2014

ROTATOR GR12SC



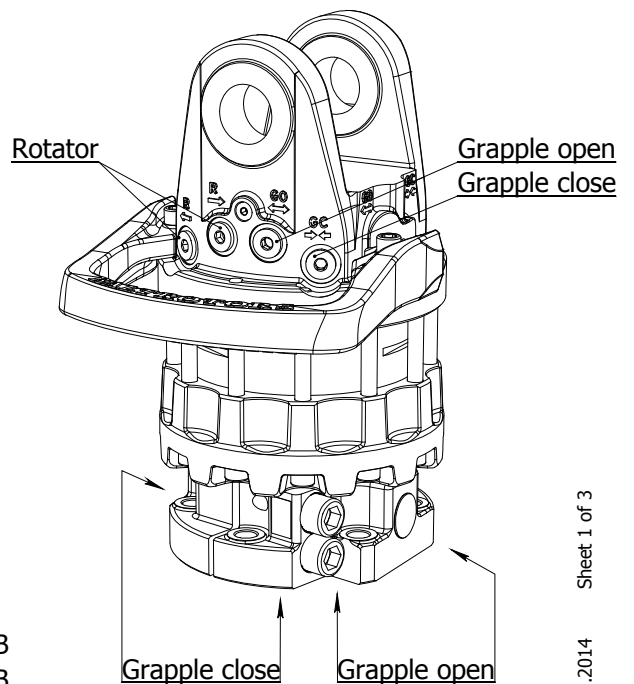
Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	+120 (26982) - 90 (20236)
Max axial load dynamic, KN (lbf)	+60 (13491) - 45 (10118)
Torque at 25Mpa (3625psi), Nm (lb ft)	2900 (2139)
Rec oilflow, l/min (US gallon)	35 (9.25)
Weight, kg (lb)	69 (152)

Max working pressure:

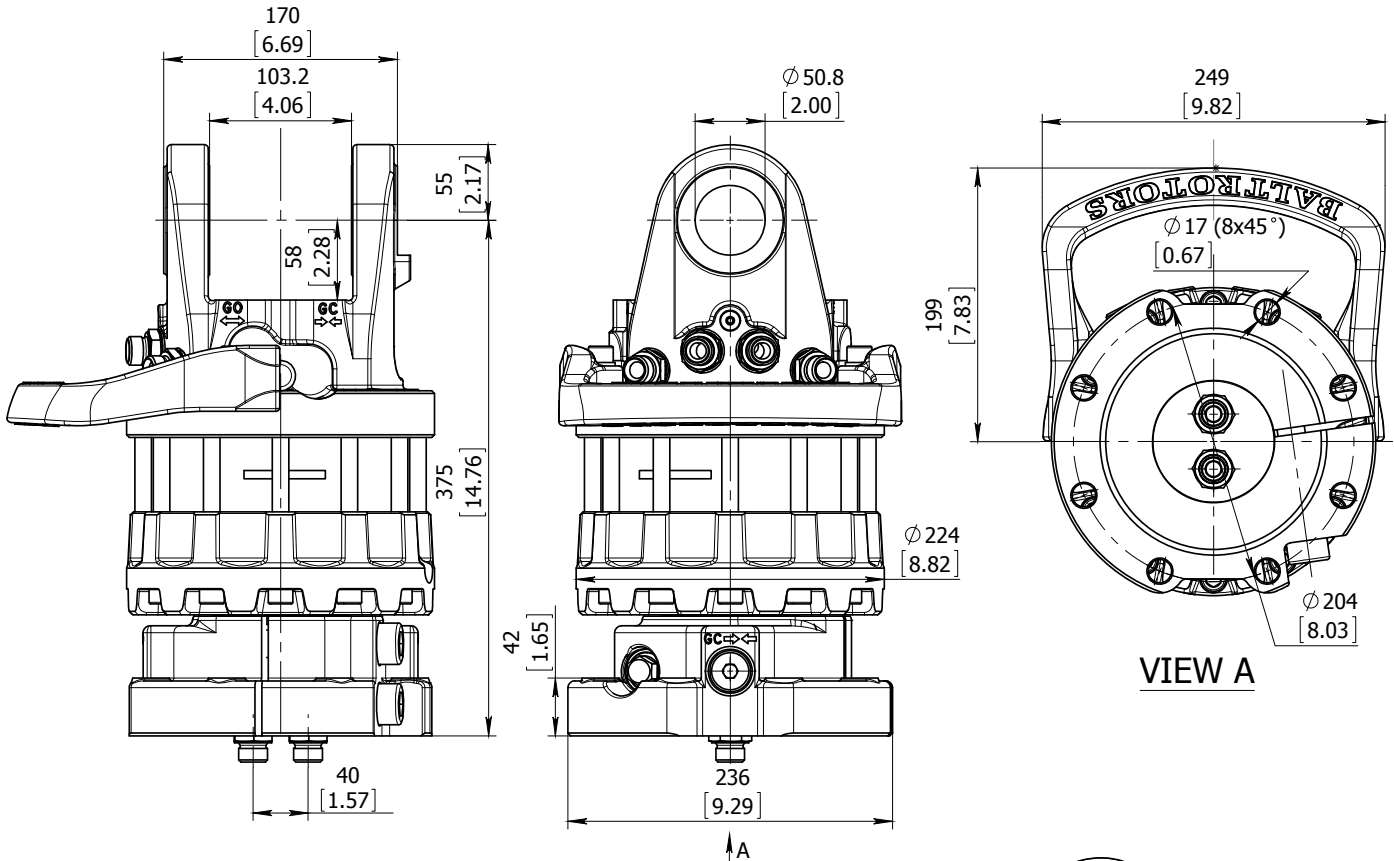
Rotator	↔R↔	Max 25 MPa (3625 psi)	3/4"-16 UNF 2B
Grapple / Tool open	↔G↔	Max 30 MPa (4350 psi)	3/4"-16 UNF 2B
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	3/4"-16 UNF 2B

Connection:



25.03.2014 Sheet 1 of 3

ROTATOR GR16A8



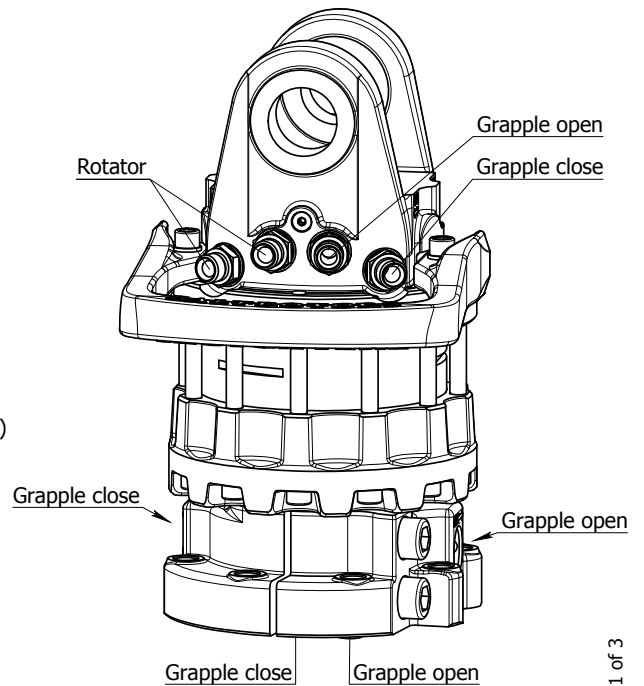
Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	+160 (35976)
	- 90 (20236)
Max axial load dynamic, KN (lbf)	+80 (17988)
	- 45 (10118)
Torque at 25Mpa (3625psi), Nm (lb ft)	3400 (2500)
Rec oilflow, l/min (US gallon)	40 (10.6)
Weight, kg (lb)	73 (161)

Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	G 1/2"
Grapple / Tool open	←G→	Max 30 MPa (4350 psi)	G 1/2"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/2"

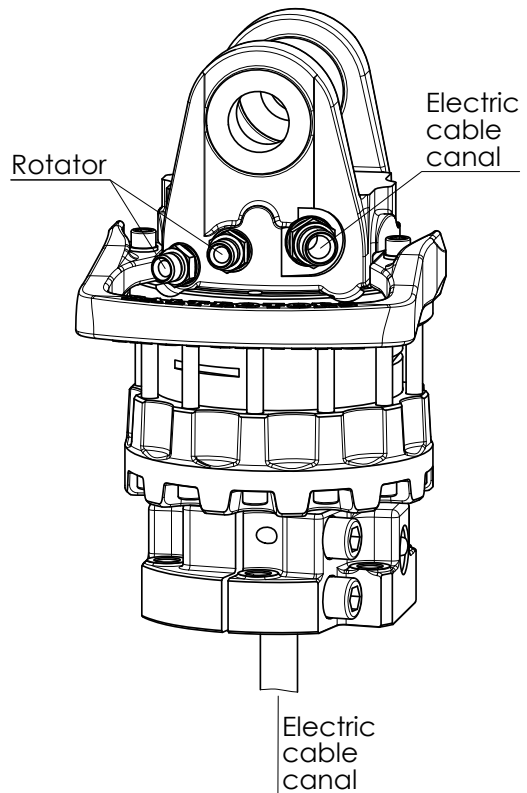
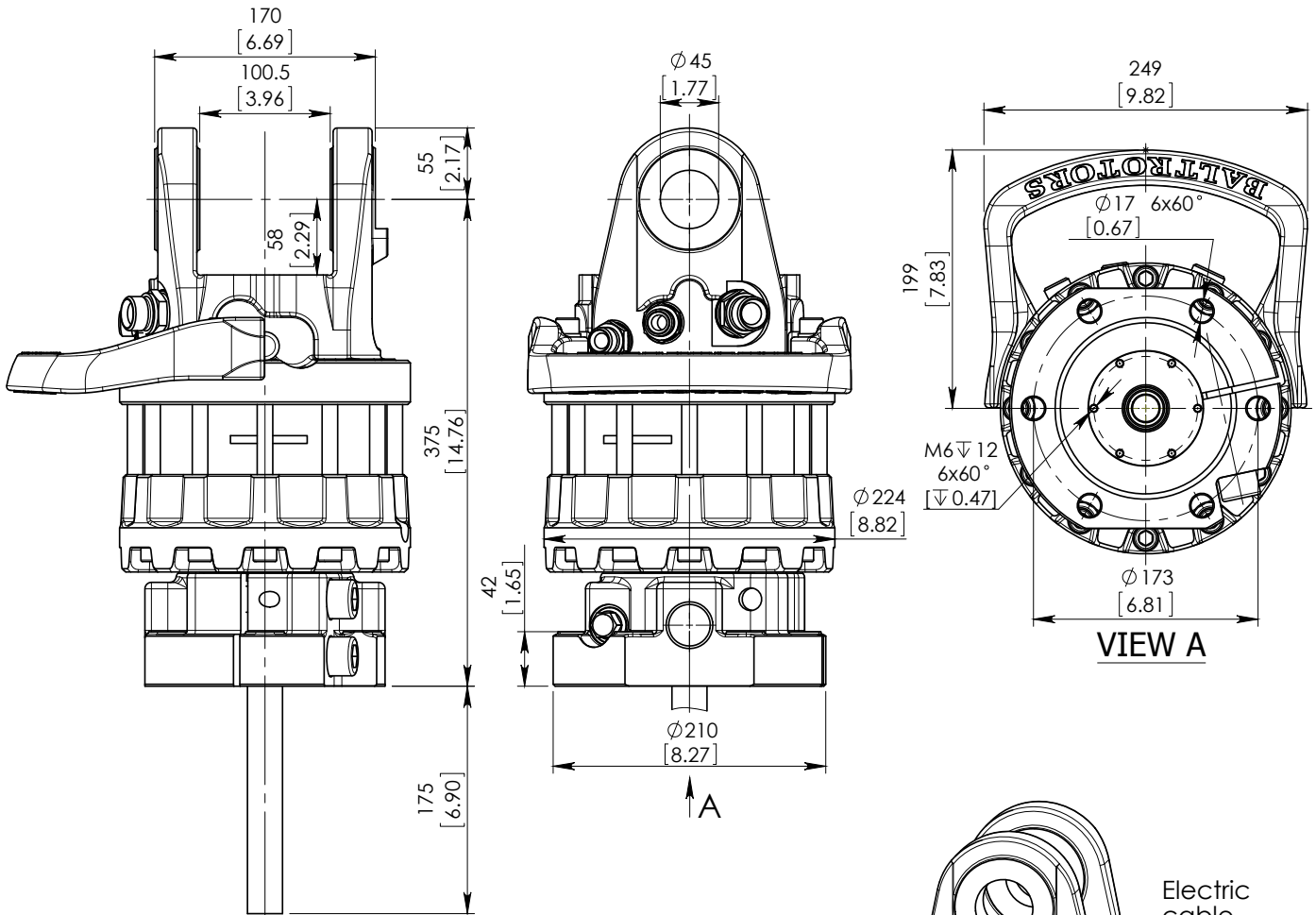
Connection:



Sheet 1 of 3

2011.10.11.

ROTATOR GR16E



Technical data

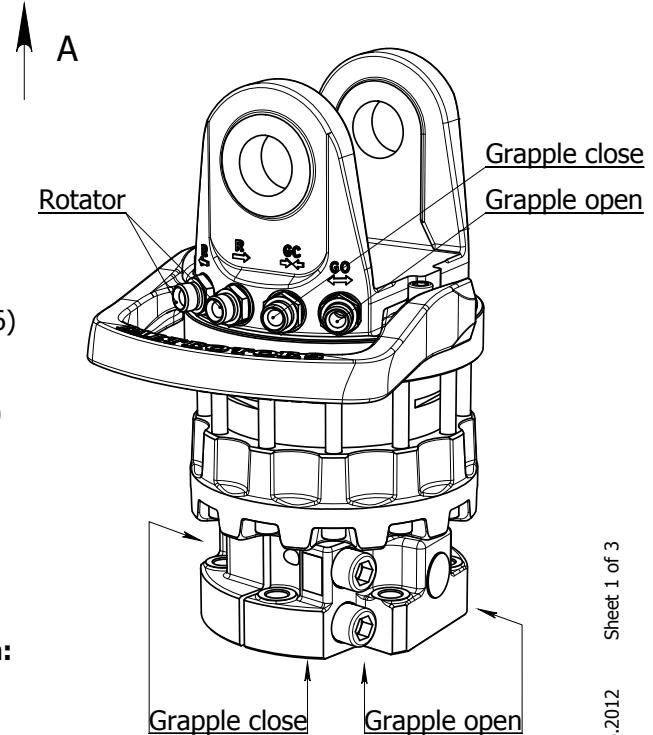
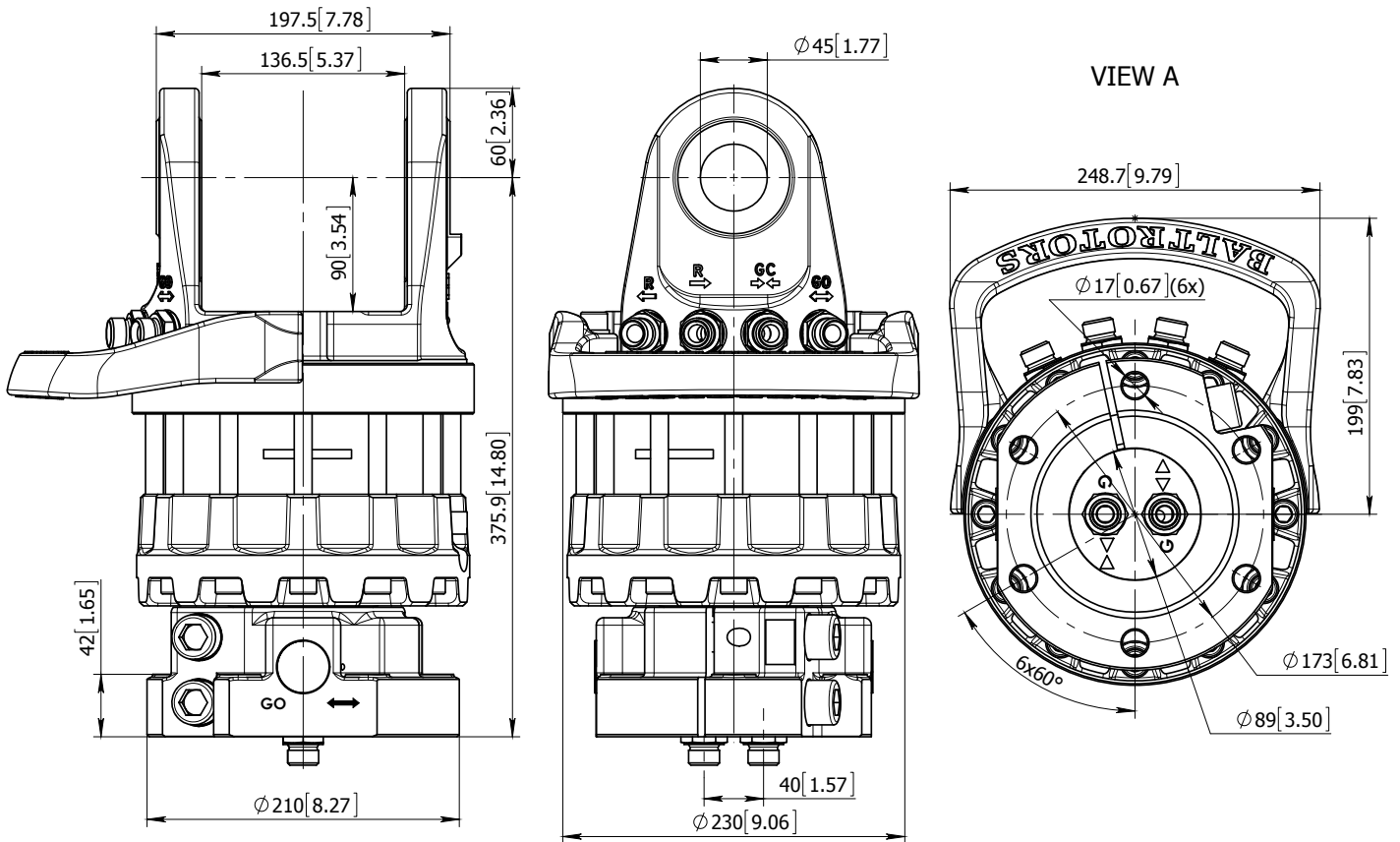
Rotation	Unlimited
Max axial load static, KN (lbf)	+160 (35976) - 90 (20236)
Max axial load dynamic, KN (lbf)	+80 (17988) - 45 (10118)
Torque at 25Mpa (3625psi), Nm (lb ft)	3400 (2500)
Rec oilflow, l/min (US gallon)	40 (10.6)
Weight, kg (lb)	70 (154)

Max working pressure:

Rotator	↔ Max 25 MPa (3625 psi)	G 1/2
Electric cable canal	Canal size \varnothing 22	G 3/4

Connection:

ROTATOR GR16H



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	+160 (35976) - 90 (20236)
Max axial load dynamic, KN (lbf)	+80 (17988) - 45 (10118)
Torque at 25Mpa (3625psi), Nm (lb ft)	3400 (2500)
Rec oilflow, l/min (US gallon)	40 (10.6)
Weight, kg (lb)	71 (157)

Max working pressure:

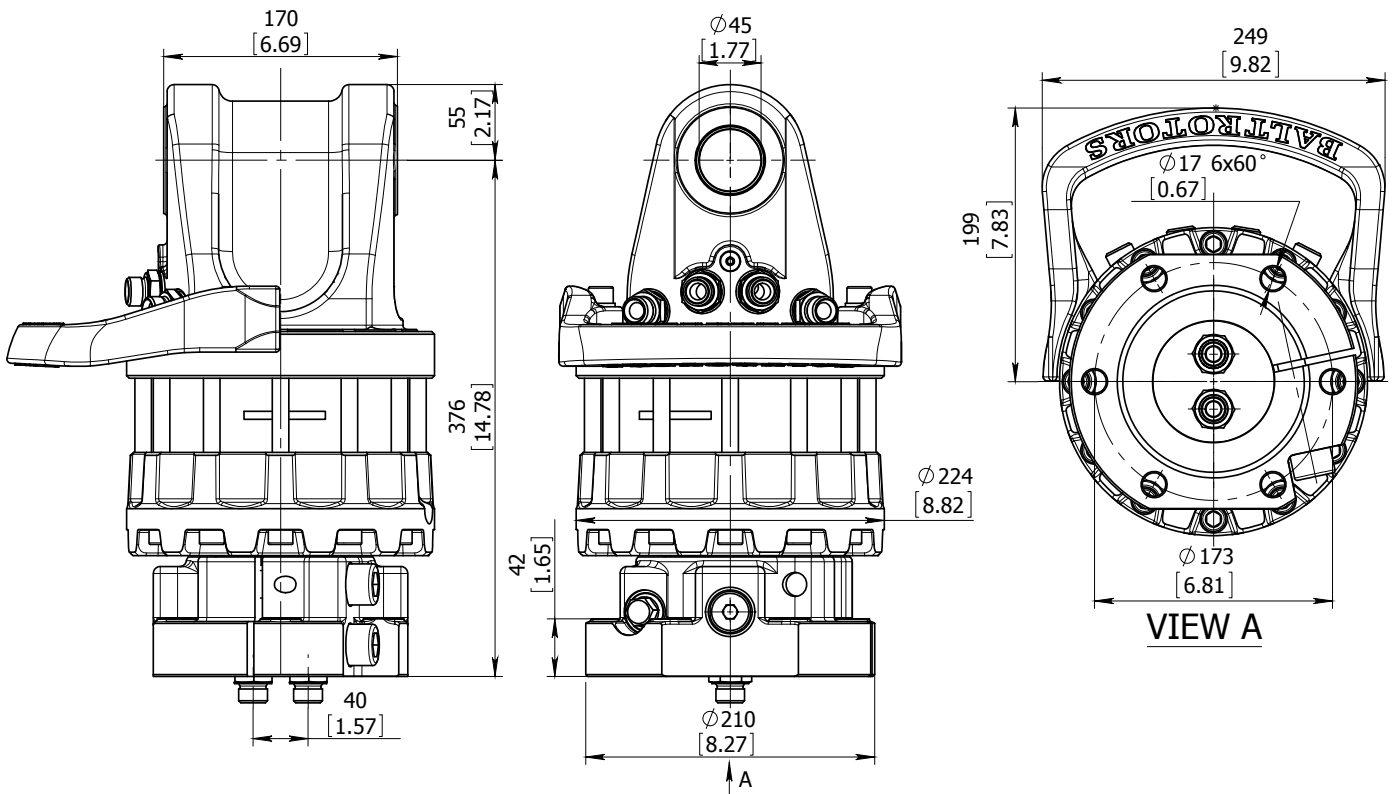
Rotator	←R→	Max 25 MPa (3625 psi)	G 1/2
Grapple / Tool open	←G→	Max 25 MPa (3625 psi)	G 1/2
Grapple / Tool close	→G←	Max 25 MPa (3625 psi)	G 1/2

Connection:

Sheet 1 of 3

08.06.2012

ROTATOR GR16P



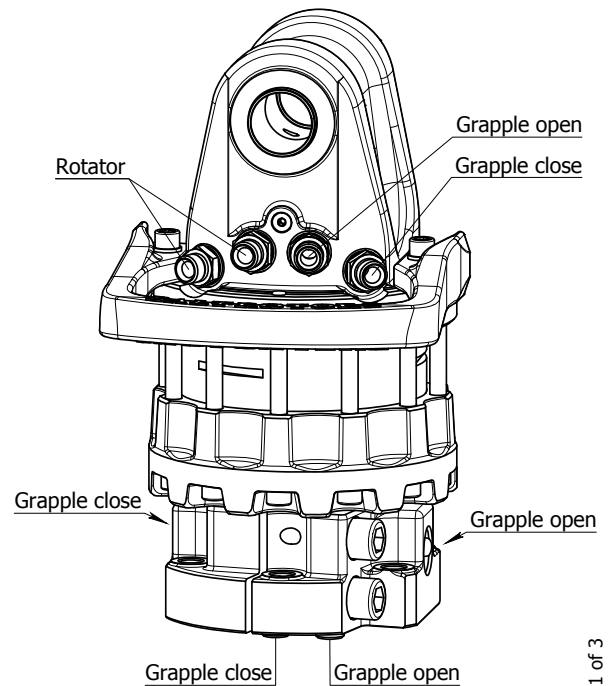
Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	+160 (35976) - 90 (20236)
Max axial load dynamic, KN (lbf)	+80 (17988) - 45 (10118)
Torque at 25Mpa (3625psi), Nm (lb ft)	3400 (2500)
Rec oilflow, l/min (US gallon)	40 (10.6)
Weight, kg (lb)	76 (167)

Max working pressure:

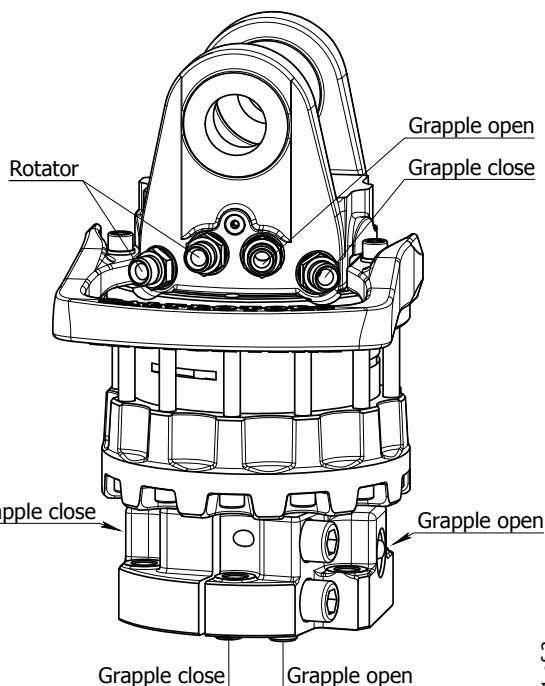
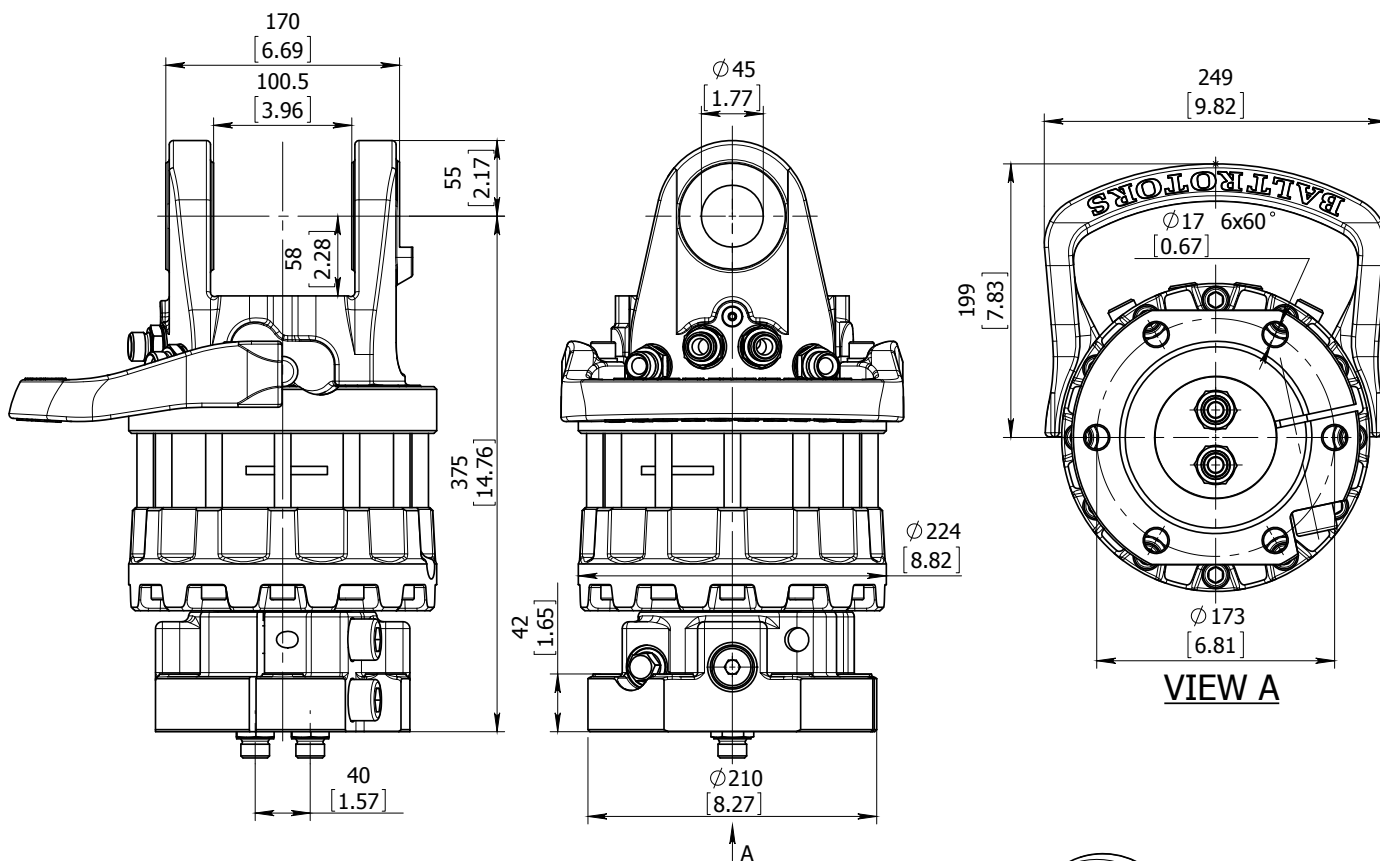
Rotator	←R→	Max 25 MPa (3625 psi)	G 1/2"
Grapple / Tool open	←G→	Max 30 MPa (4350 psi)	G 1/2"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/2"

Connection:



Sheet 1 of 3
2011.10.05.

ROTATOR GR16S



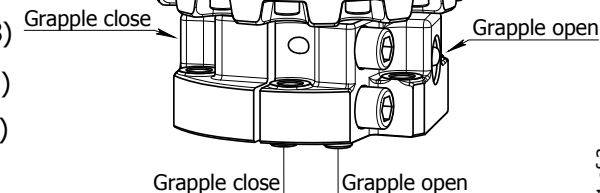
Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	+160 (35976) - 90 (20236)
Max axial load dynamic, KN (lbf)	+80 (17988) - 45 (10118)
Torque at 25Mpa (3625psi), Nm (lb ft)	3400 (2500)
Rec oilflow, l/min (US gallon)	40 (10.6)
Weight, kg (lb)	71 (157)

Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	G 1/2
Grapple / Tool open	←G→	Max 30 MPa (4350 psi)	G 1/2
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/2

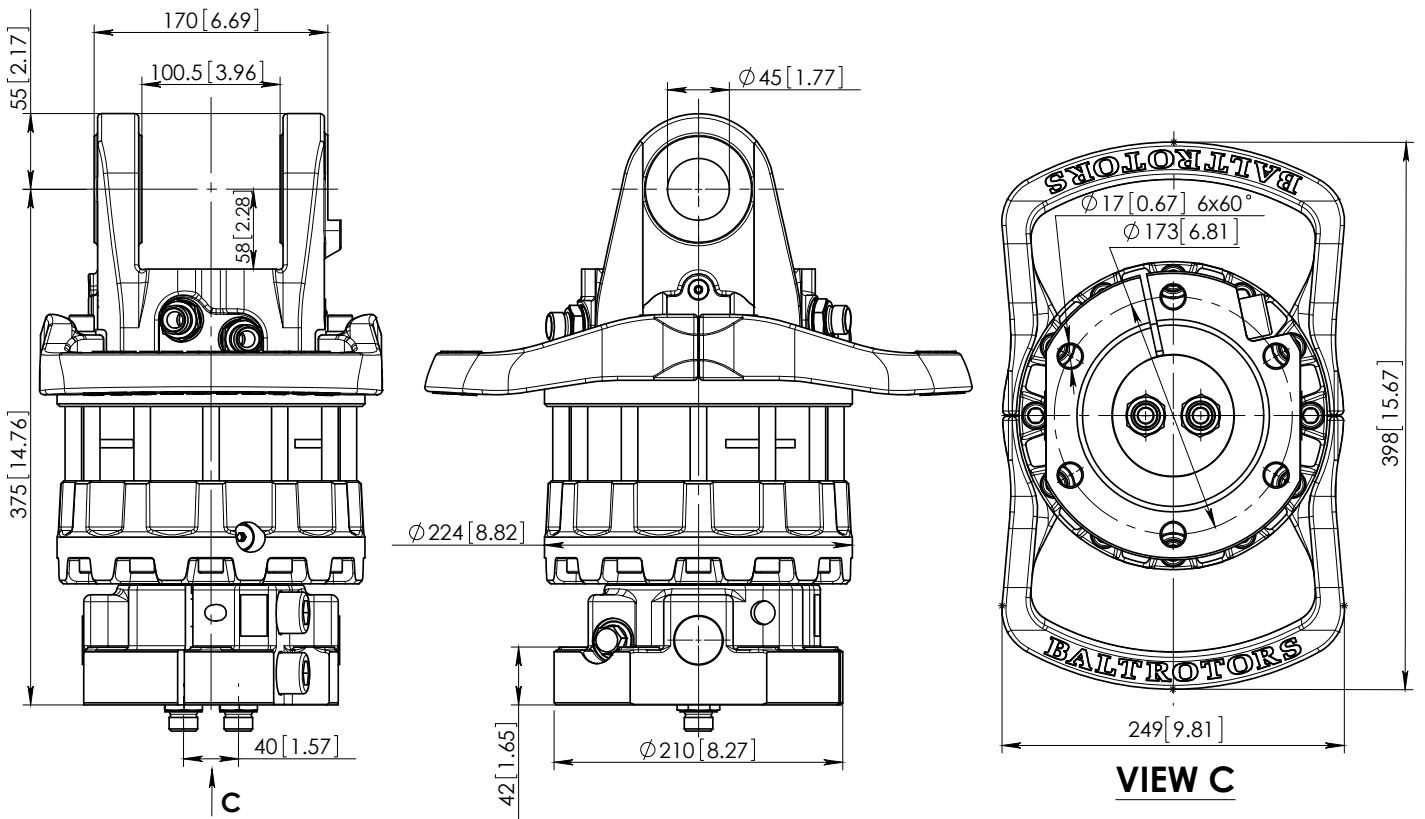
Connection:



Sheet 1 of 3

20.06.2014

ROTATOR GR16S-2



Technical data

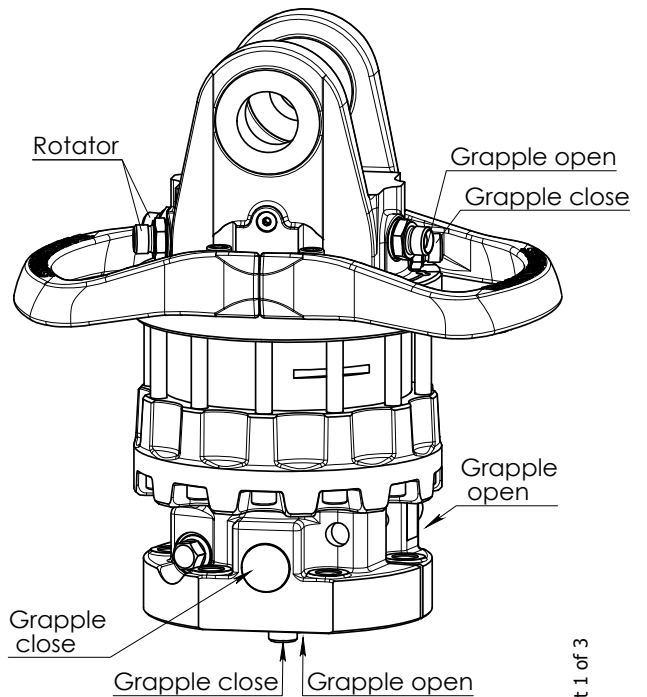
Rotation	Unlimited
Max axial load static, KN (lbf)	+160 (35976)
	- 90 (20236)
Max axial load dynamic, KN (lbf)	+80 (17988)
	- 45 (10118)
Torque at 25Mpa (3625psi), Nm (lb ft)	3400 (2500)
Rec oilflow, l/min (US gallon)	40 (10.6)
Weight, kg (lb)	75 (166)

Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)
Grapple / Tool open	←G→	Max 30 MPa (4350 psi)
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)

Connection:

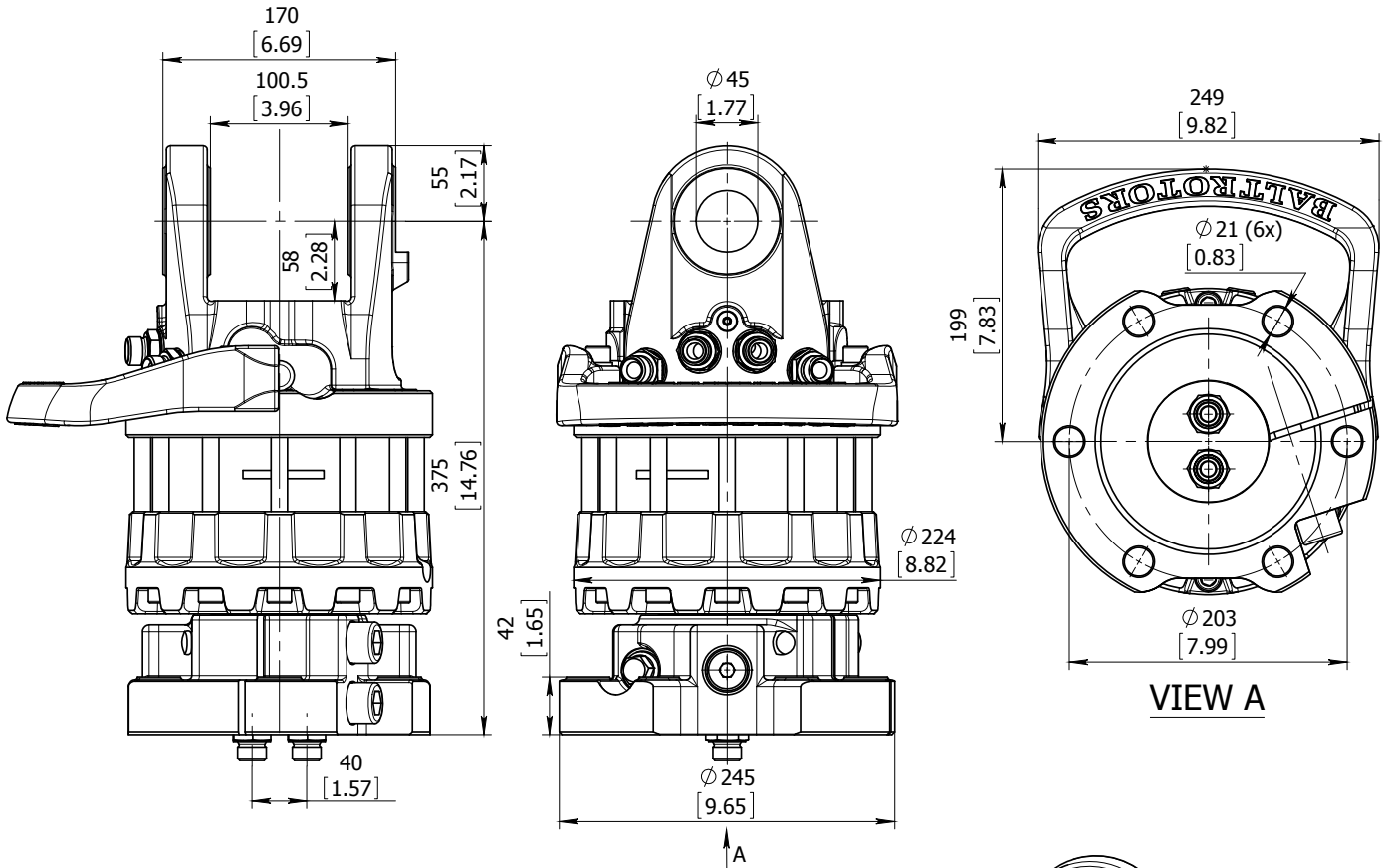
G 1/2"
G 1/2"
G 1/2"



Sheet 1 of 3

20.03.2014

ROTATOR GR16S203



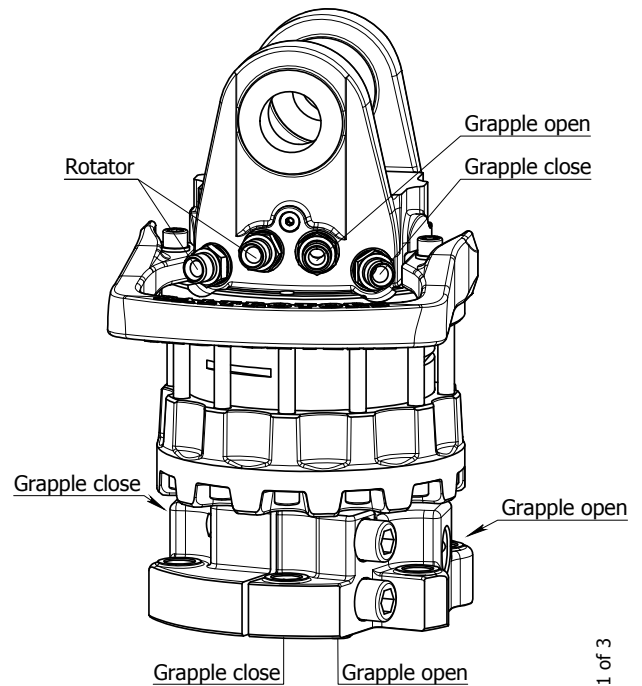
Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	+160 (35976)
	- 90 (20236)
Max axial load dynamic, KN (lbf)	+80 (17988)
	- 45 (10118)
Torque at 25Mpa (3625psi), Nm (lb ft)	3400 (2500)
Rec oilflow, l/min (US gallon)	40 (10.6)
Weight, kg (lb)	74 (163)

Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	G 1/2"
Grapple / Tool open	←G→	Max 30 MPa (4350 psi)	G 1/2"
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/2"

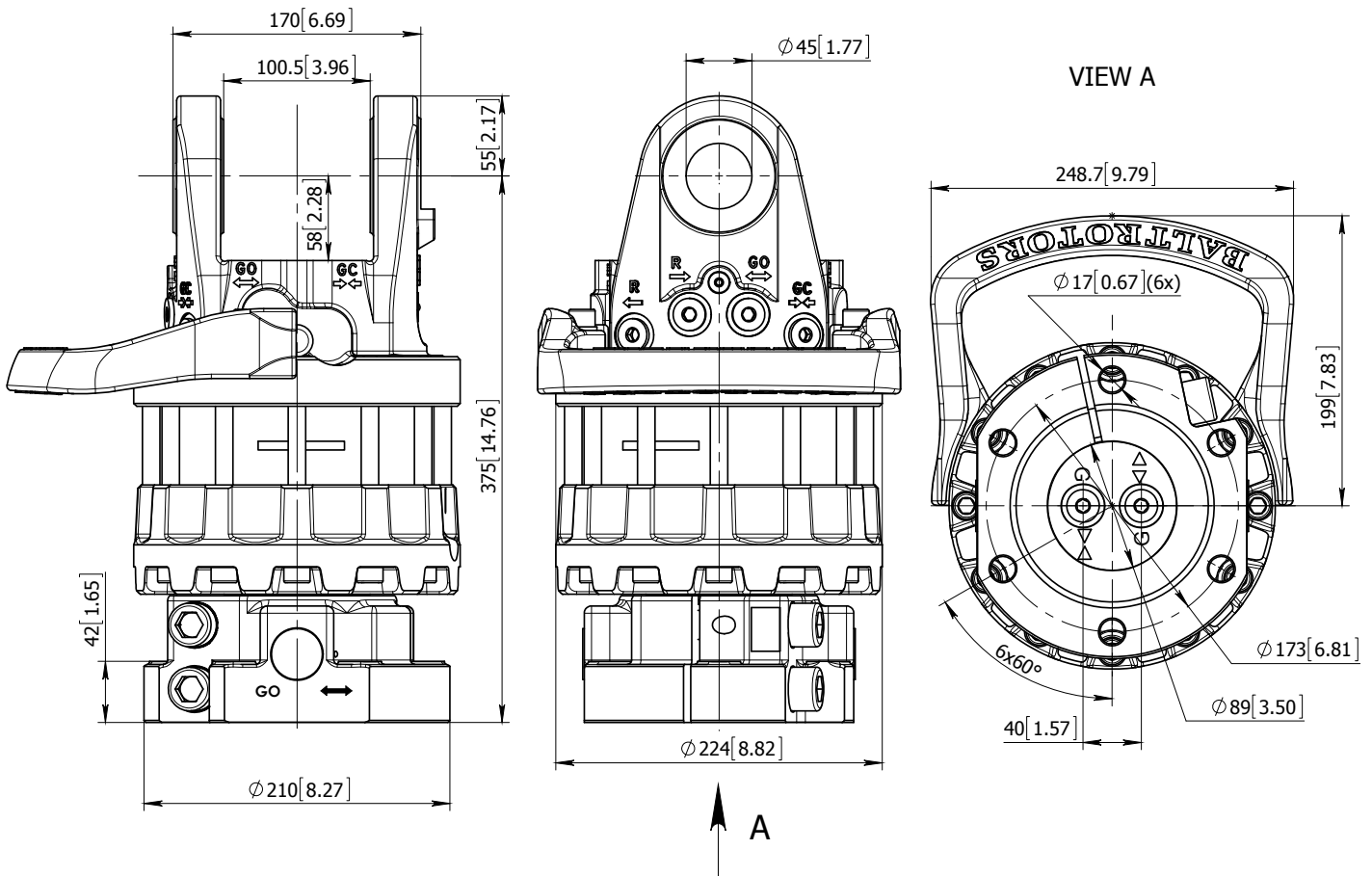
Connection:



Sheet 1 of 3

2011.10.15.

ROTATOR GR16SC



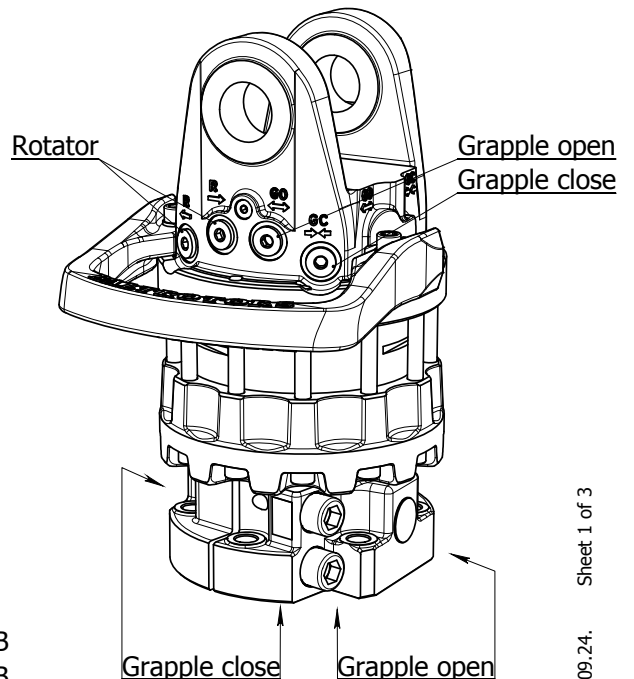
Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	+160 (35976) - 90 (20236)
Max axial load dynamic, KN (lbf)	+80 (17988) - 45 (10118)
Torque at 25Mpa (3625psi), Nm (lb ft)	3400 (2500)
Rec oilflow, l/min (US gallon)	40 (10.6)
Weight, kg (lb)	72.5 (160)

Max working pressure:

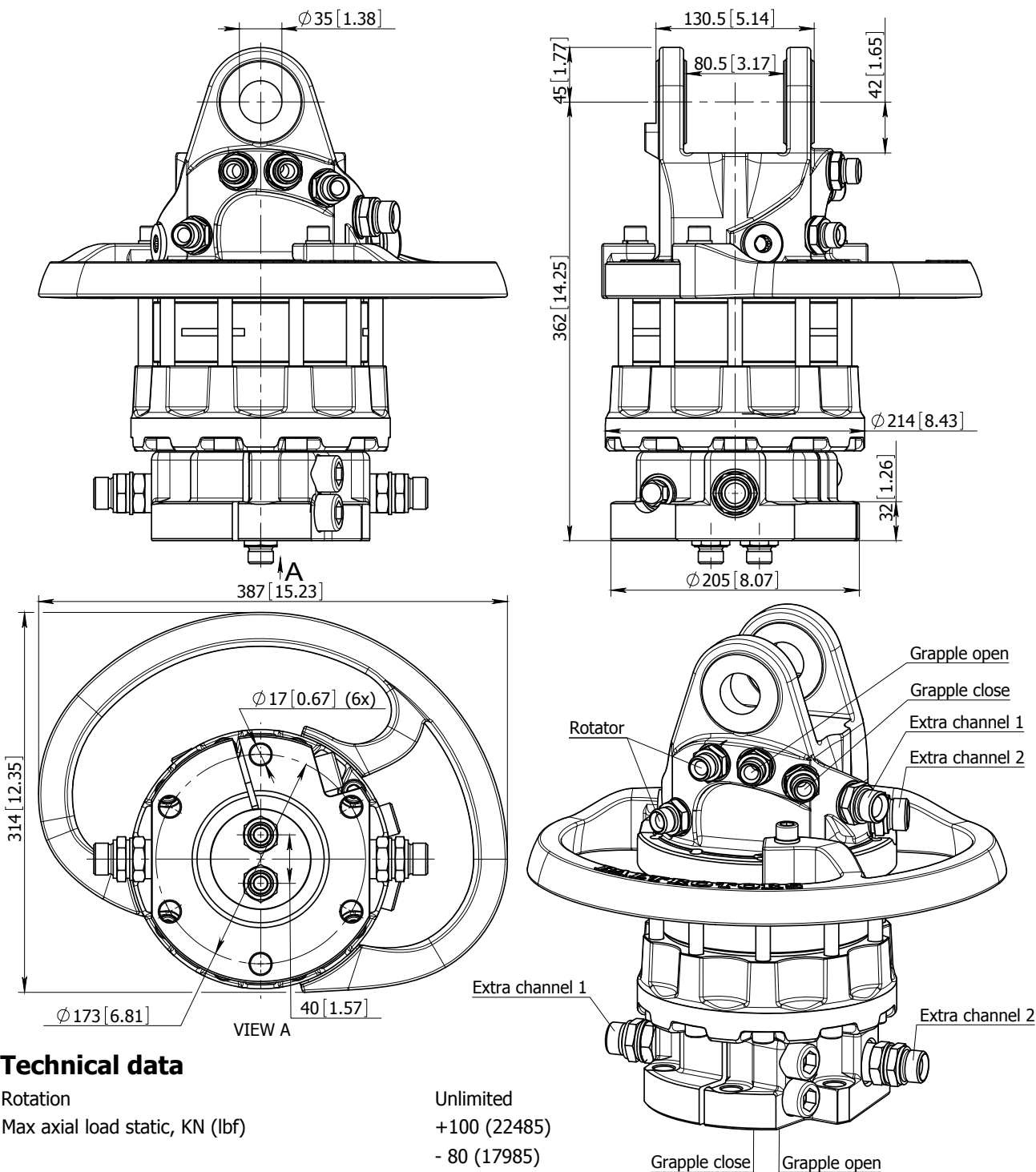
Rotator	←R→	Max 25 MPa (3625 psi)	3/4"-16 UNF 2B
Grapple / Tool open	←G→	Max 25 MPa (3625 psi)	3/4"-16 UNF 2B
Grapple / Tool close	→G←	Max 25 MPa (3625 psi)	3/4"-16 UNF 2B

Connection:



2013.09.24. Sheet 1 of 3

ROTATOR GRS10



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	+100 (22485) - 80 (17985)
Max axial load dynamic, KN (lbf)	+50 (11242) - 40 (8992)
Torque at 25Mpa (3625psi), Nm (lb ft)	2500 (1844)
Rec oilflow, l/min (US gallon)	30 (7.9)
Weight, kg (lb)	64 (142)

Max working pressure:

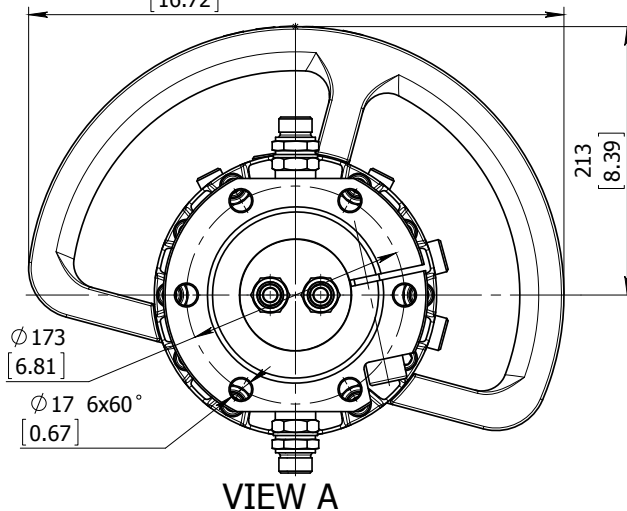
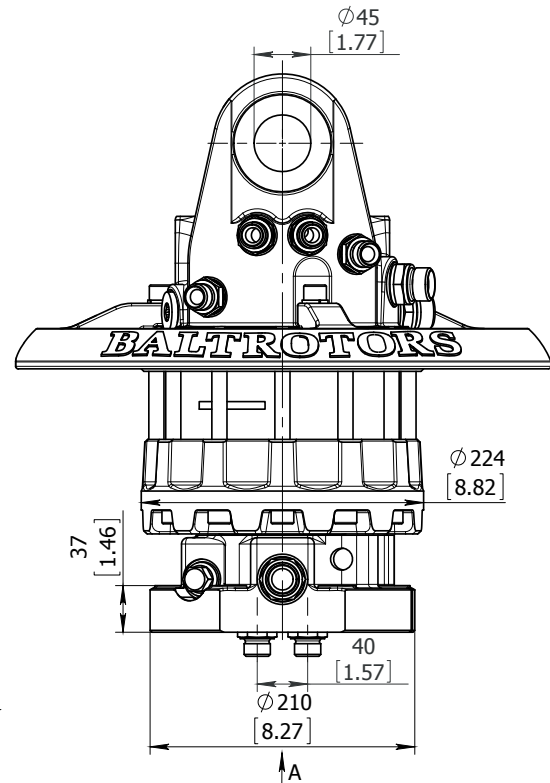
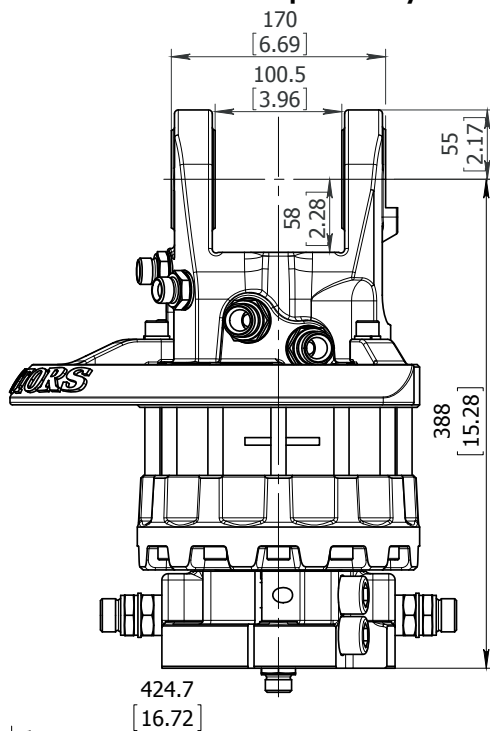
Rotator	←R→ Max 25 MPa (3625 psi)
Grapple / Tool open	←G→ Max 20 MPa (2900 psi)
Grapple / Tool close	→G← Max 30 MPa (4350 psi)
Extra oil function	1 2 Max 30 MPa (4350 psi)

Connection:

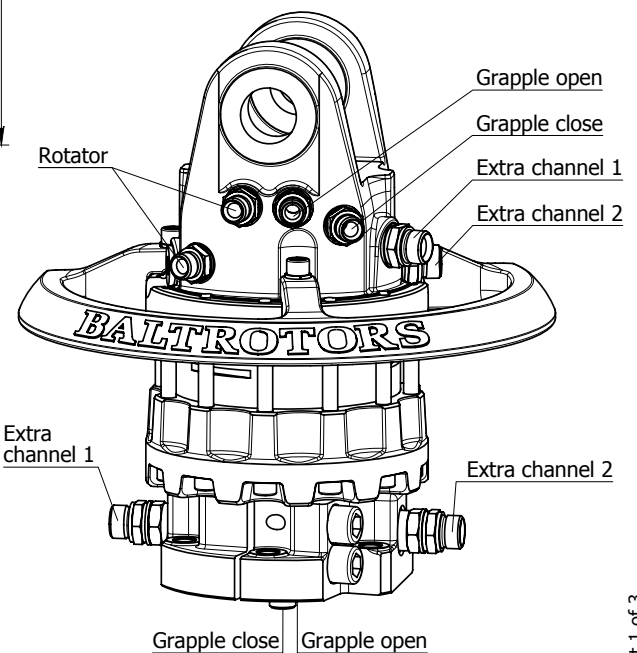
G 1/2"
G 1/2"
G 1/2"
G 3/4"

ROTATOR GRS12S

Specially designed for grapple saw



VIEW A



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	+120 (26982) -90 (20236)
Max axial load dynamic, KN (lbf)	+60 (13491) -45 (10118)
Torque at 25Mpa (3625psi), Nm (lb ft)	2900 (2139)
Rec oilflow, l/min (US gallon)	35 (9.25)
Weight, kg (lb)	78 (172)

Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	G 1/2
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)	G 1/2
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/2
Extra oil function	1 2	Max 30 MPa (4350 psi)	G 3/4

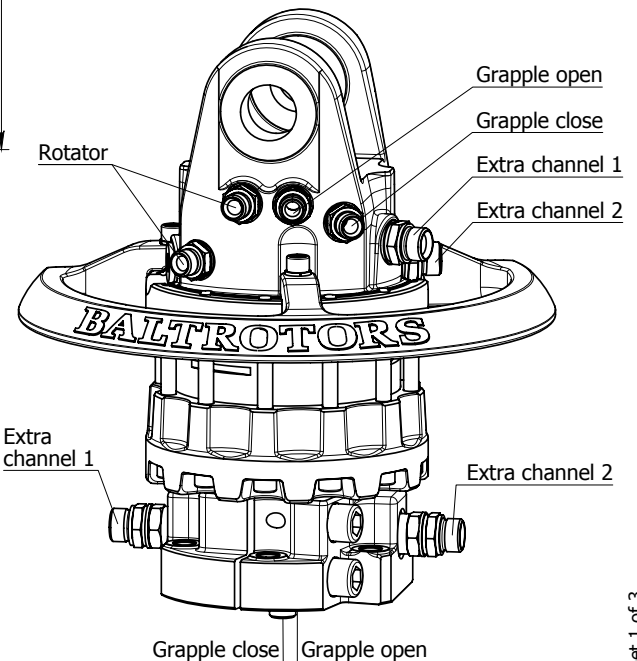
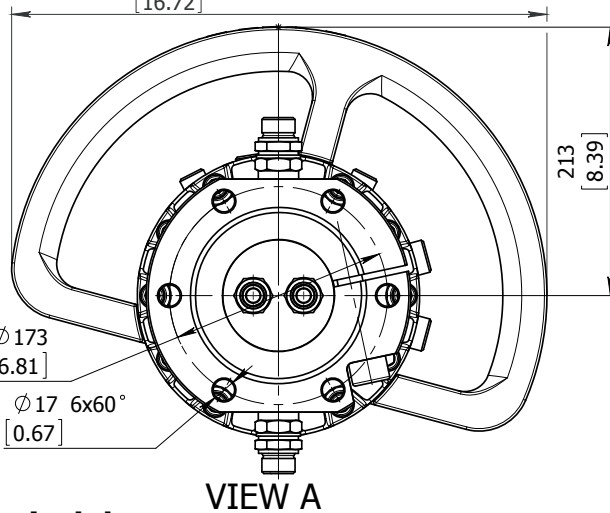
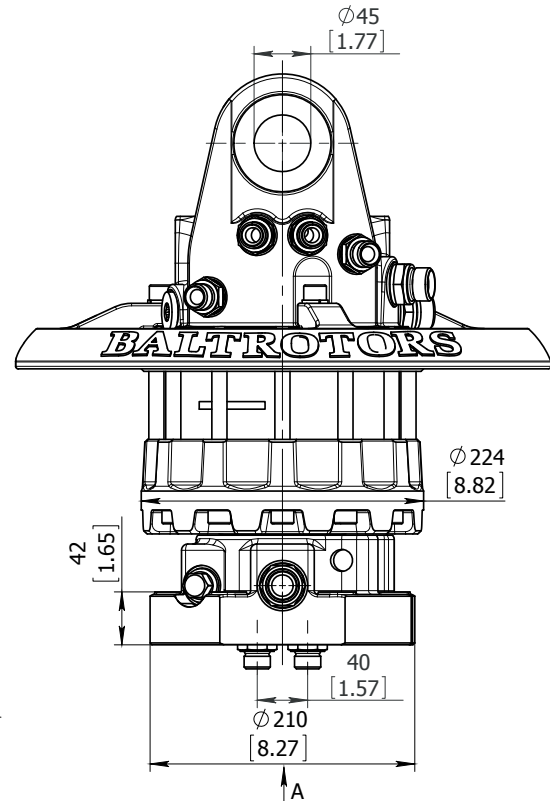
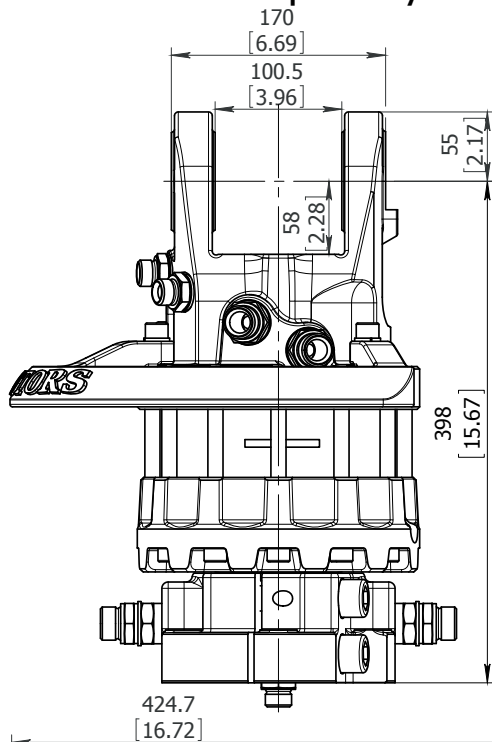
Connection:

Sheet 1 of 3

06.06.2012

ROTATOR GRS16S

Specially designed for grapple saw



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	+160 (35976) -90 (20236)
Max axial load dynamic, KN (lbf)	+80 (17988) -45 (10118)
Torque at 25Mpa (3625psi), Nm (lb ft)	3400 (2500)
Rec oilflow, l/min (US gallon)	40 (10.6)
Weight, kg (lb)	79 (175)

Max working pressure:

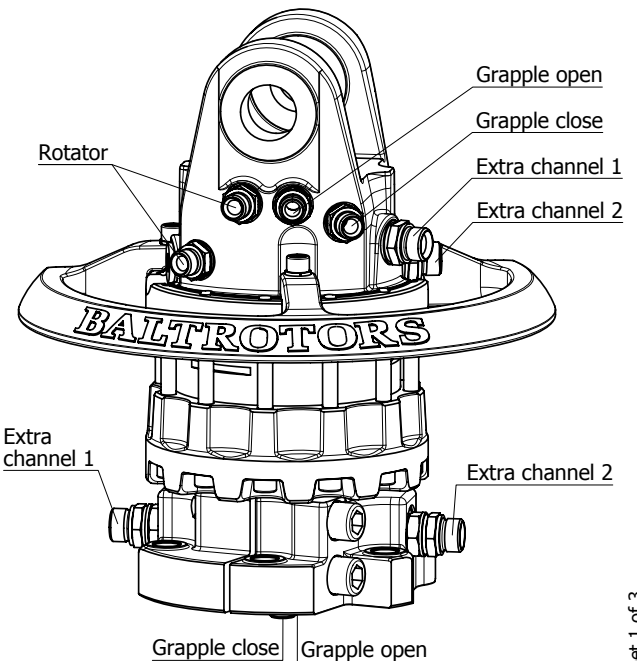
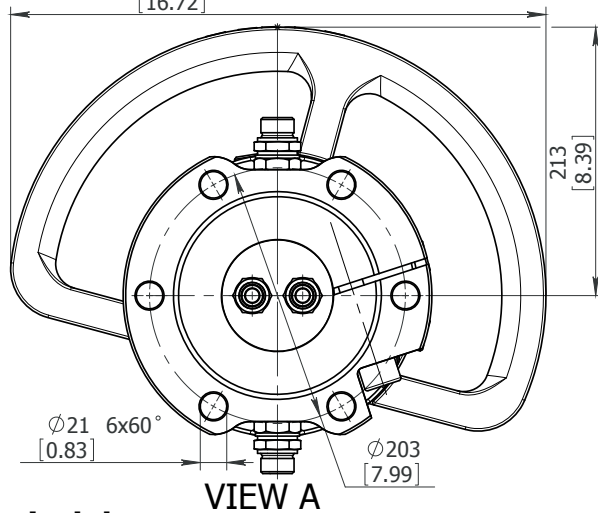
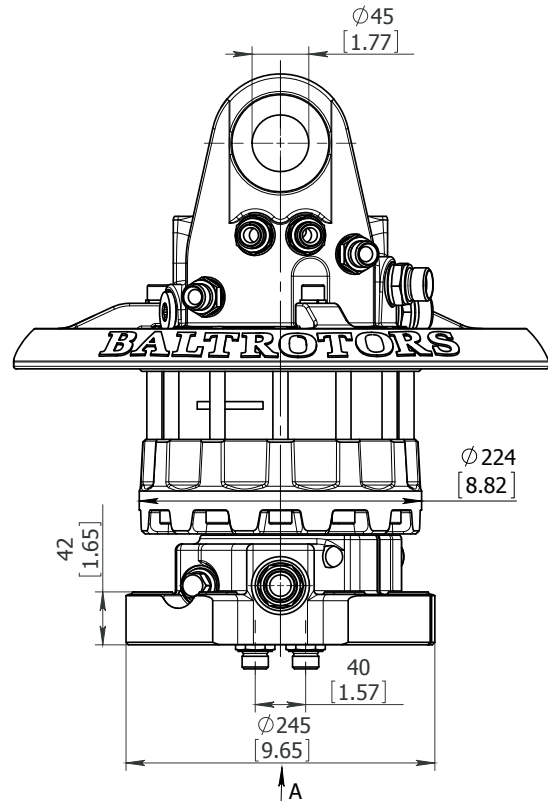
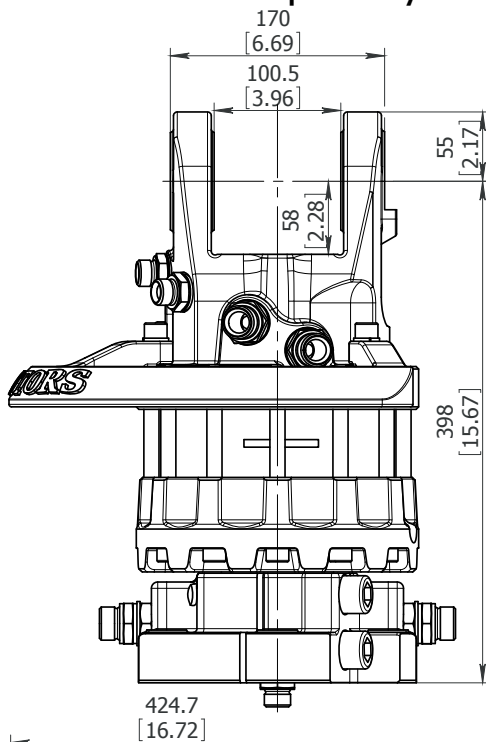
Rotator	←R→ Max 25 MPa (3625 psi) G 1/2
Grapple / Tool open	←G→ Max 20 MPa (2900 psi) G 1/2
Grapple / Tool close	→G← Max 30 MPa (4350 psi) G 1/2
Extra oil function	1 2 Max 30 MPa (4350 psi) G 3/4

Connection:



ROTATOR GRS16S203

Specially designed for grapple saw



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	+160 (35976) - 90 (20236)
Max axial load dynamic, KN (lbf)	+80 (17988) - 45 (10118)
Torque at 25Mpa (3625psi), Nm (lb ft)	3400 (2500)
Rec oilflow, l/min (US gallon)	40 (10.6)
Weight, kg (lb)	83 (183)

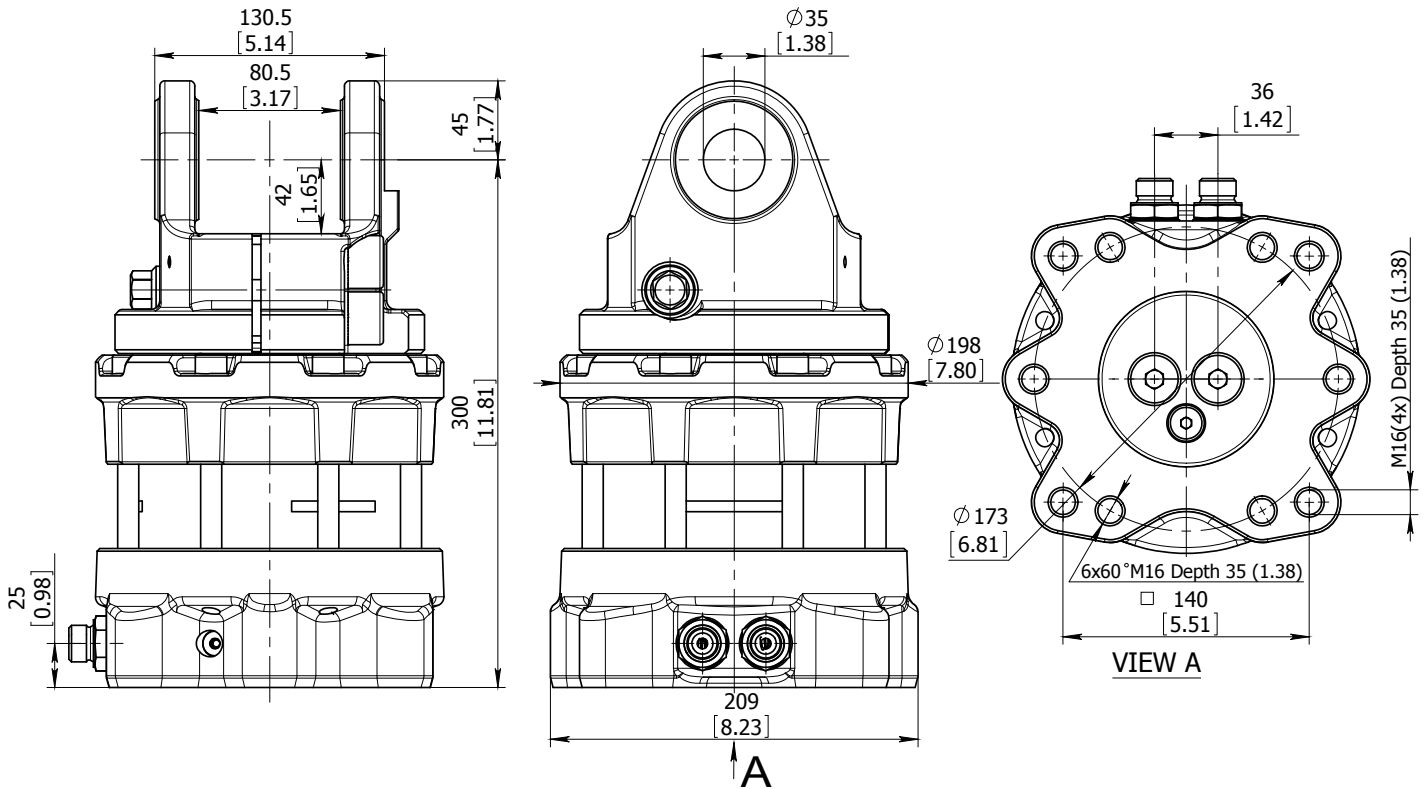
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)	G 1/2
Grapple / Tool open	←G→	Max 20 MPa (2900 psi)	G 1/2
Grapple / Tool close	→G←	Max 30 MPa (4350 psi)	G 1/2
Extra oil function	1 2	Max 30 MPa (4350 psi)	G 3/4

Connection:

ROTATOR HR6

Specially designed for the Harvester heads



Technical data

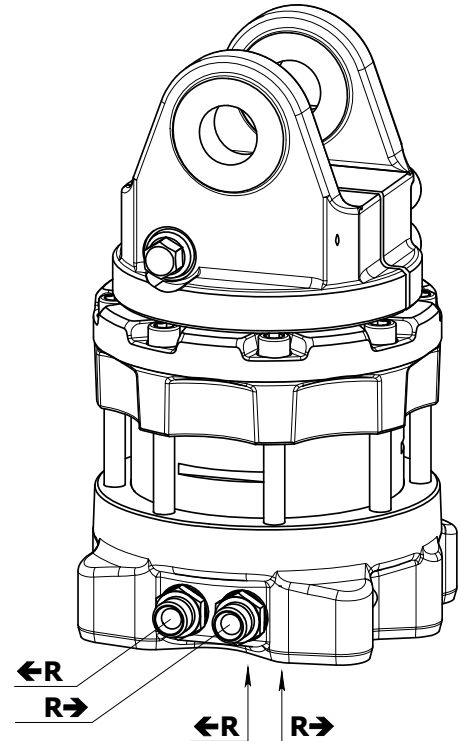
Rotation	Unlimited
Max axial load static, KN (lbf)	+60 (13491)
	- 45 (10118)
Max axial load dynamic, KN (lbf)	+30 (6745)
	- 25 (5621)
Torque at 25Mpa (3625psi), Nm (lb ft)	1700 (1253)
Rec oilflow, l/min (US gallon)	25 (6.6)
Weight, kg (lb)	46 (101)

Max working pressure:

Rotator **←R→** Max 25 MPa (3625 psi)

Connection:

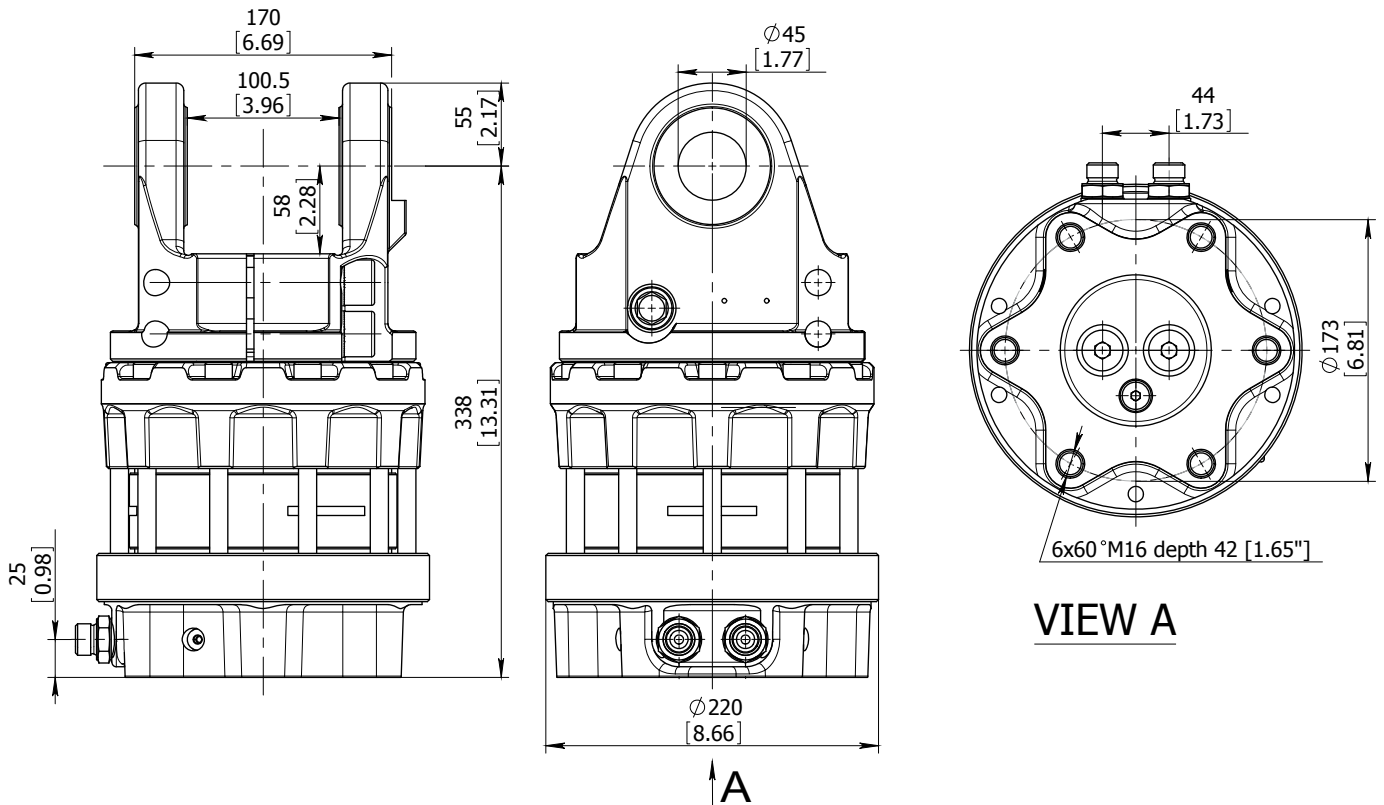
G 1/2"



2011.10.24. Sheet 1 of 3

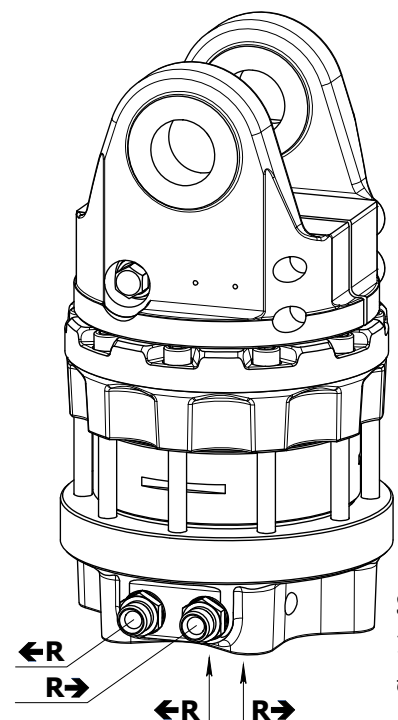
ROTATOR HR10SM

Specially designed for the Harvester heads



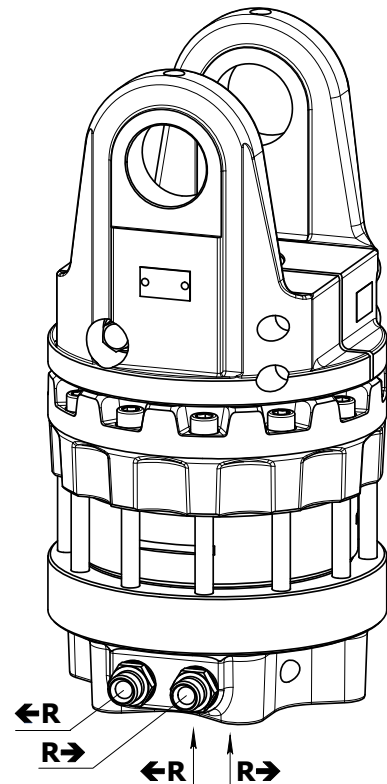
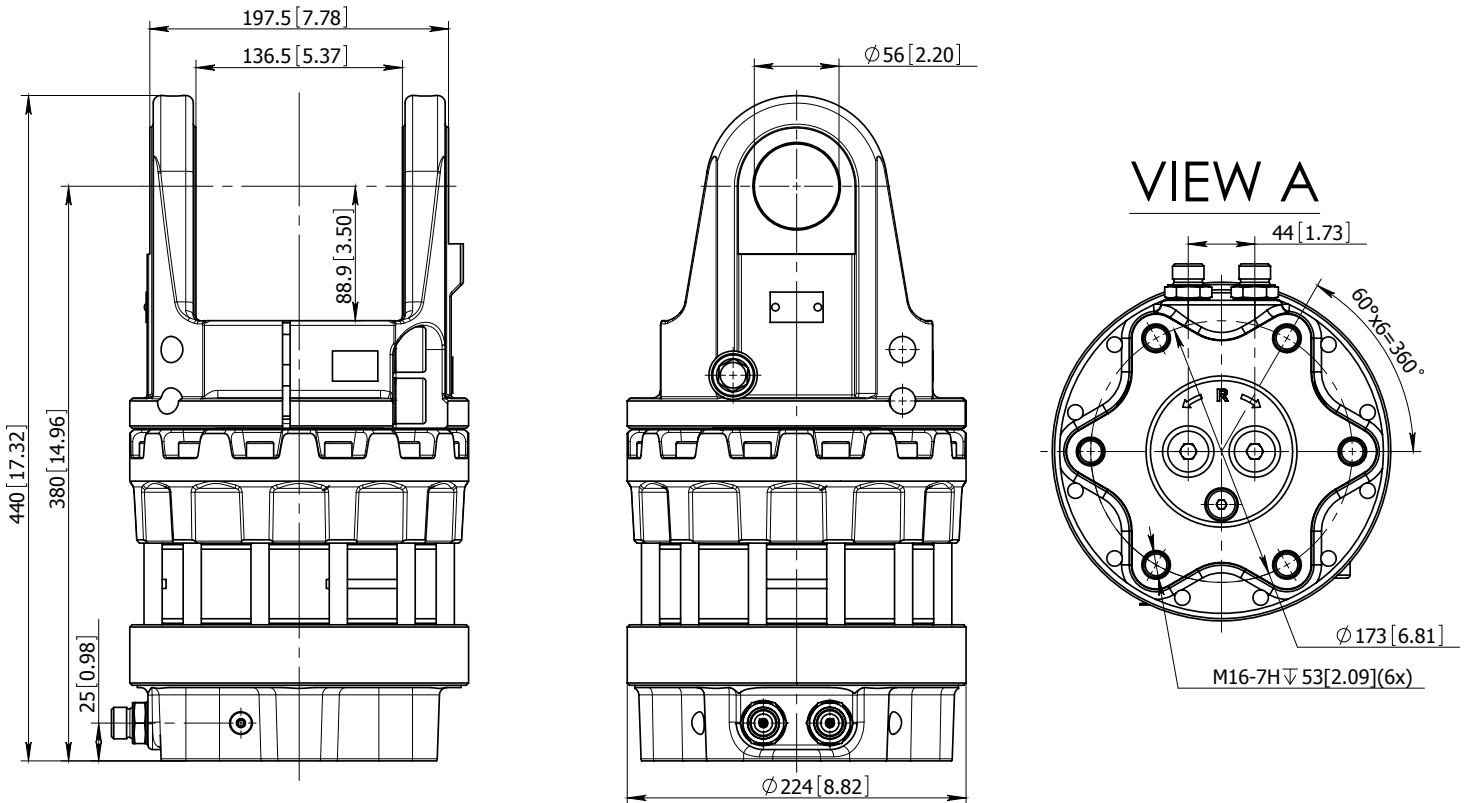
Technical data

Rotation	Unlimited
Max axial load static, kN (lbf)	+100 (22485) - 90 (20236)
Max axial load dynamic, kN (lbf)	+50 (11242) - 45 (10118)
Torque at 25MPa (3625psi), Nm (lb ft)	2400 (1770)
Rec oilflow, l/min (US gallon)	30 (7.9)
Weight, kg (lb)	64 (140)
Max working pressure:	Connection:
Rotator ←R→ Max 25 MPa (3625 psi)	G 1/2"



Sheet 1 of 3
2011.10.24.

ROTATOR HR12-01

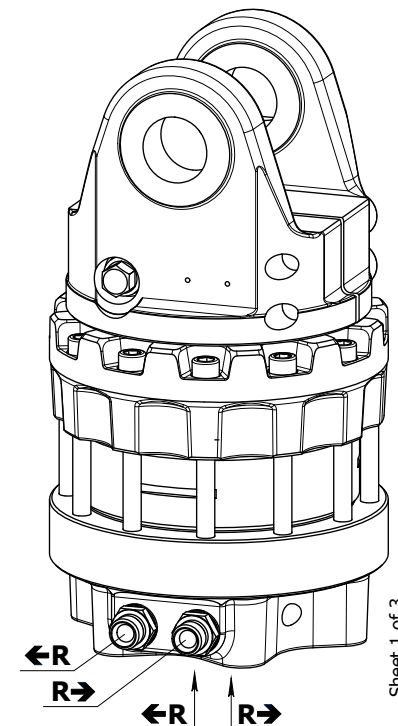
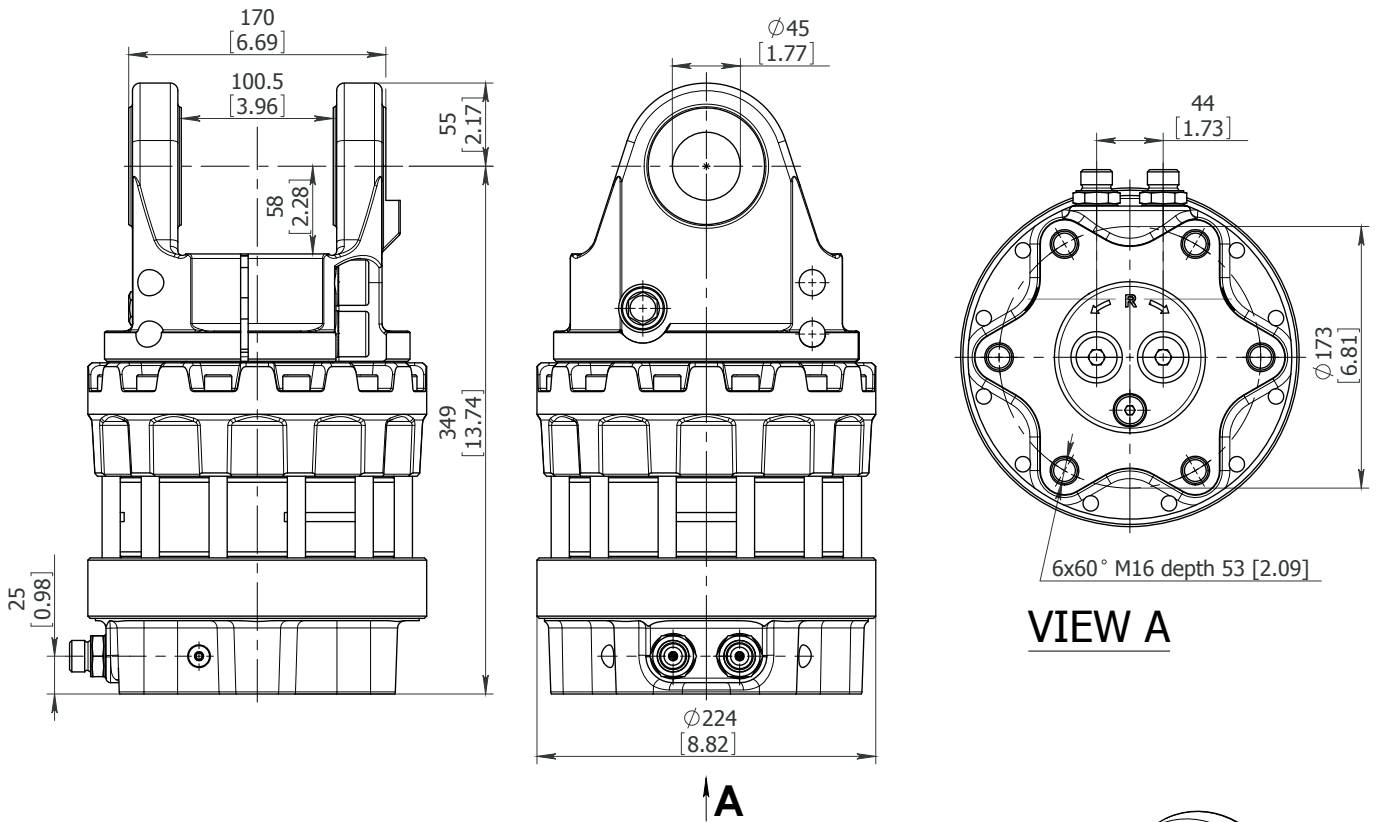


Technical data

Rotation	Unlimited
Max axial load static, kN (lbf)	+120 (26982) -100 (22485)
Max axial load dynamic, kN (lbf)	+60 (13491) -50 (11242)
Torque at 25MPa (3625psi), Nm (lb ft)	2900 (2139)
Rec oilflow, l/min (US gallon)	35 (9.25)
Weight, kg (lb)	74 (163)
Max working pressure:	Connection:
Rotator ←R→ Max 25 MPa (3625 psi)	G 1/2

ROTATOR HR12SM

Specially designed for the Harvester heads



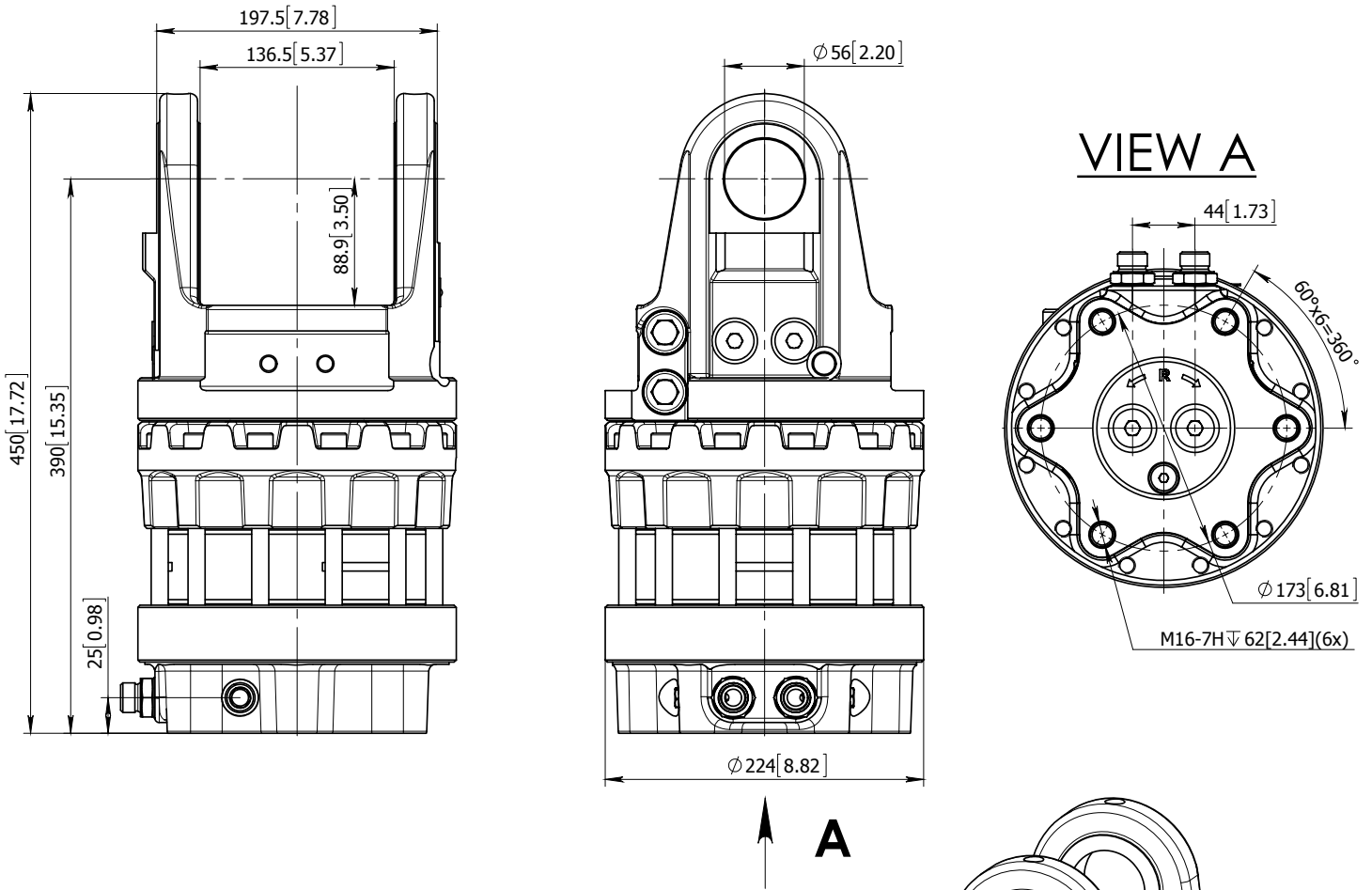
Sheet 1 of 3

08.06.2012

Technical data

Rotation	Unlimited
Max axial load static, kN (lbf)	+120 (26982) -100 (22485)
Max axial load dynamic, kN (lbf)	+60 (13491) -50 (11242)
Torque at 25MPa (3625psi), Nm (lb ft)	2900 (2139)
Rec oilflow, l/min (US gallon)	35 (9.25)
Weight, kg (lb)	69 (152)
Max working pressure:	Connection:
Rotator ←R→ Max 25 MPa (3625 psi)	G 1/2

ROTATOR HR16-02



Technical data

Rotation	Unlimited
Max axial load static, kN (lbf)	+160 (35976) -100 (22485)
Max axial load dynamic, kN (lbf)	+80 (17988) -50 (11242)
Torque at 25MPa (3625psi), Nm (lb ft)	3300 (2434)
Rec oilflow, l/min (US gallon)	40 (10.6)
Weight, kg (lb)	76 (169)

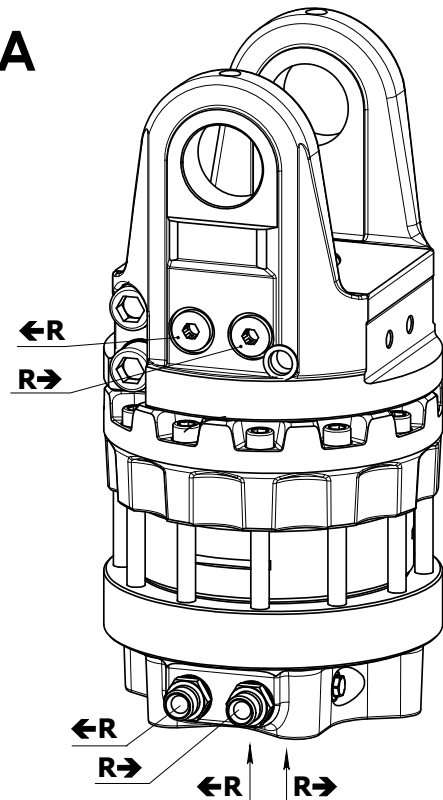
Max working pressure:

Rotator ←R→ Max 25 MPa (3625 psi)*

Connection:

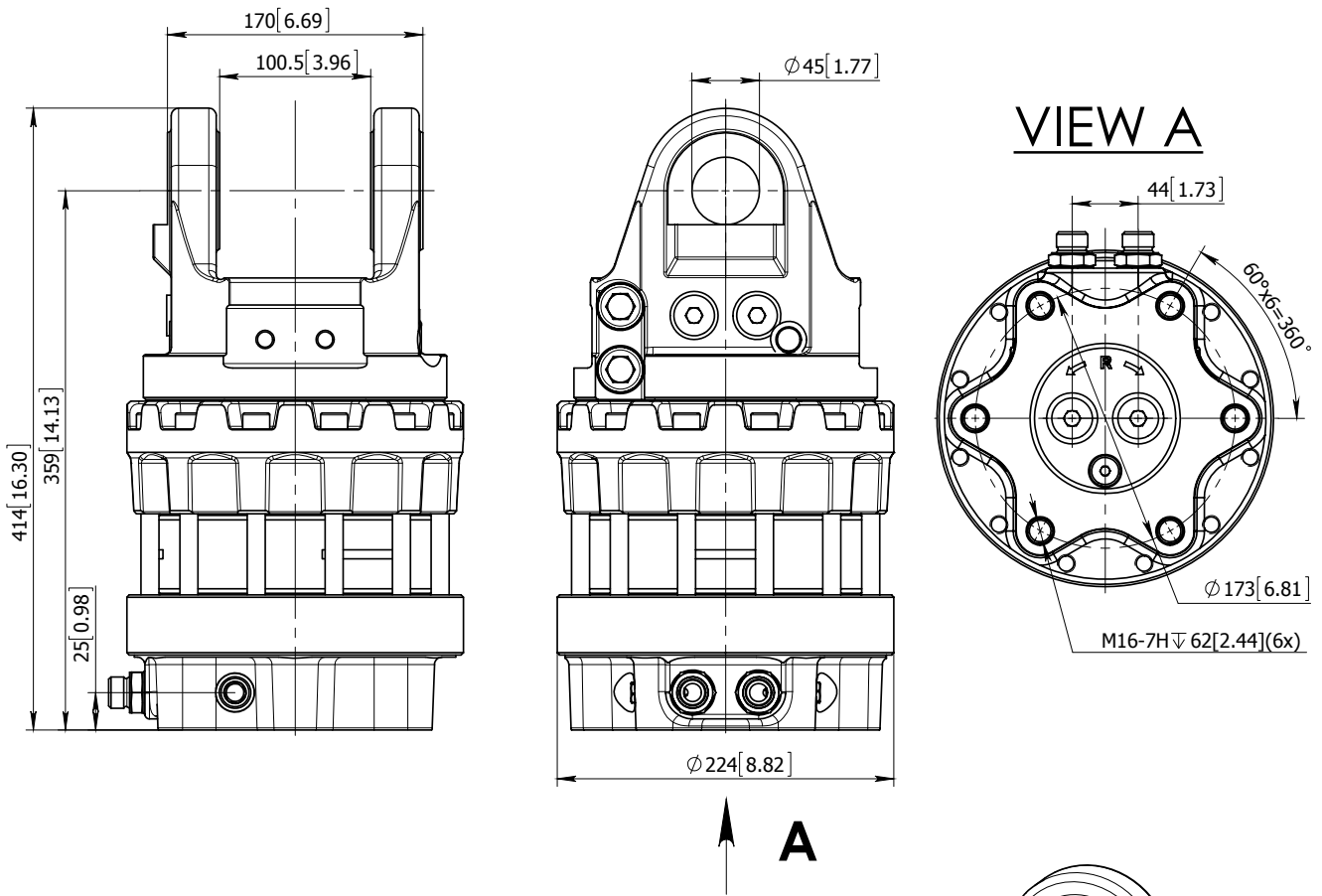
G 1/2

* Relief valves fitted



28.08.2014 Sheet 1 of 3

ROTATOR HR16-03



Technical data

Rotation	Unlimited
Max axial load static, kN (lbf)	+160 (35976) -100 (22485)
Max axial load dynamic, kN (lbf)	+80 (17988) -50 (11242)
Torque at 25MPa (3625psi), Nm (lb ft)	3300 (2434)
Rec oilflow, l/min (US gallon)	40 (10.6)
Weight, kg (lb)	71 (157)

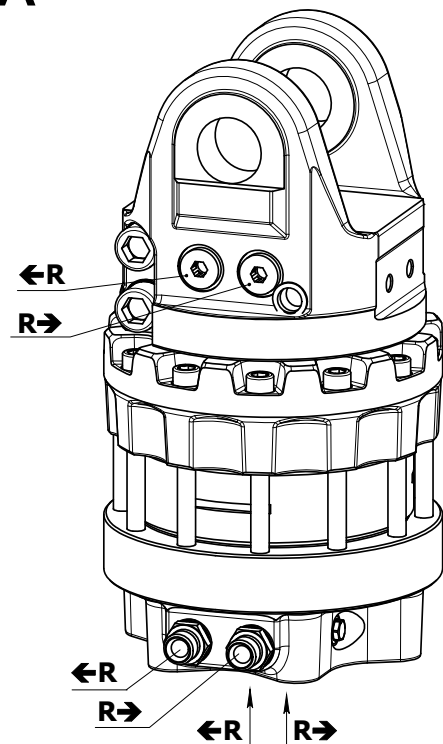
Max working pressure:

Rotator ←R→ Max 25 MPa (3625 psi)*

Connection:

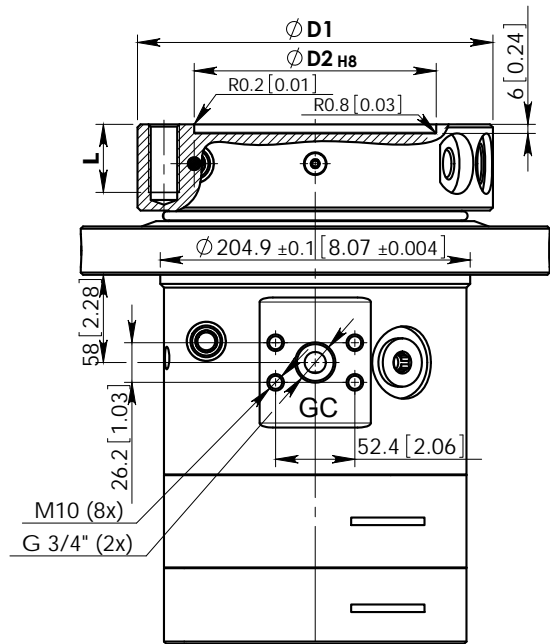
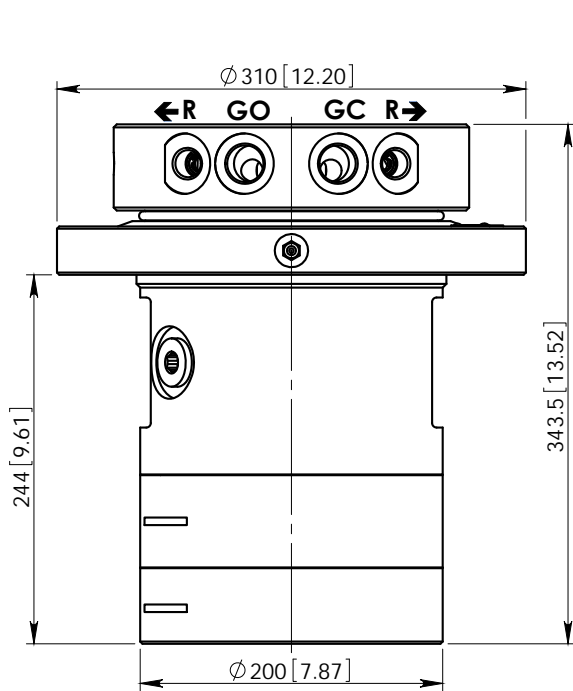
G 1/2

* Relief valves fitted



13.11.2014 Sheet 1 of 3

INDUSTRIAL ROTATOR **GIR12, GIR12-01**



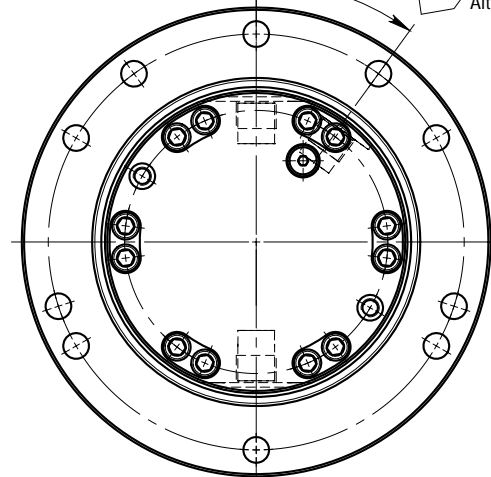
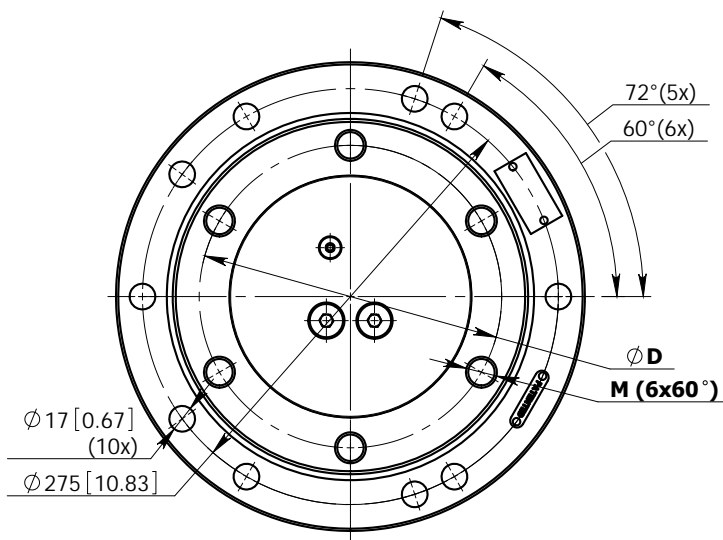
A

GC

GC Alternative

GO

View A



Technical data

Rotation	Unlimited
Max axial load static	±250 KN [56202 lbf]
Max axial load dynamic	±80 KN [17985 lbf]
Torque at 20 Mpa	2000 Nm [1475 lb ft] ₃
Rated displacement	724 cm ³ /rev. [44.2 in ³ /rev.] ₃
Rotation speed	max 30 rpm
Oil duct area for grapple	150 mm ² [0.232in ²]

	D	D1	D2	M	L	Weight
GIR 12	200 [7.87]	235 [9.25]	160 [6.3]	M20	45 [1.77]	85 kg [188 lb]
GIR 12-01	180 [7.09]	210 [8.27]	140 [5.51]	M16	40 [1.57]	82 kg [180 lb]

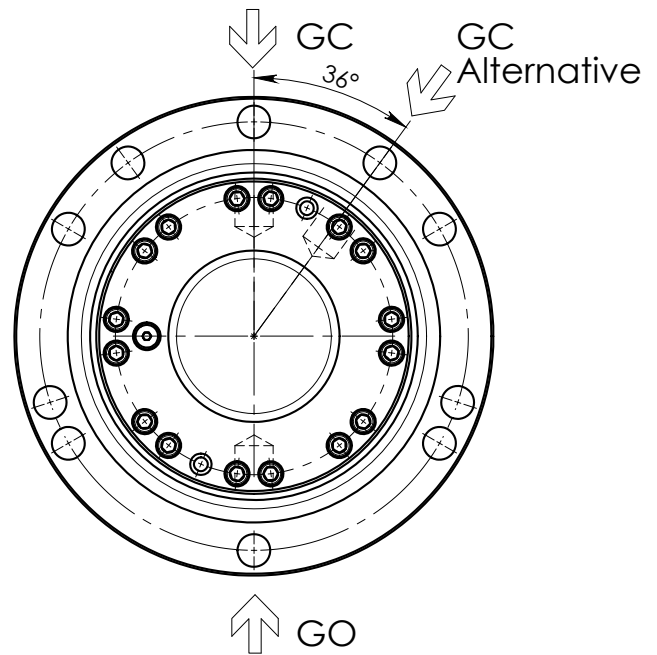
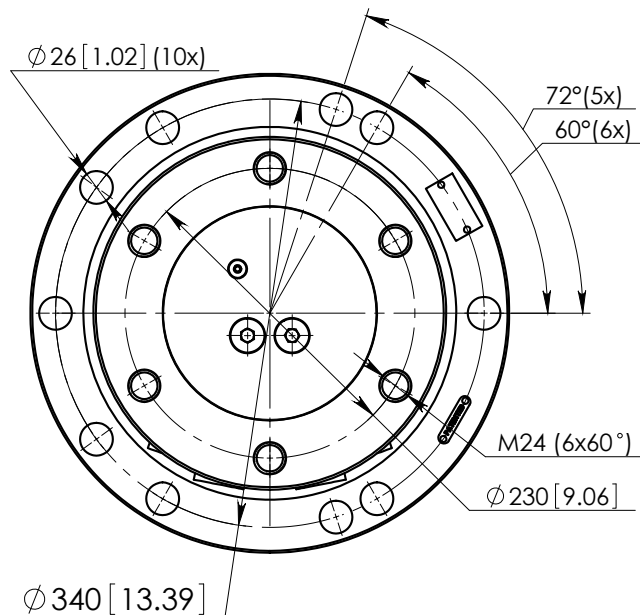
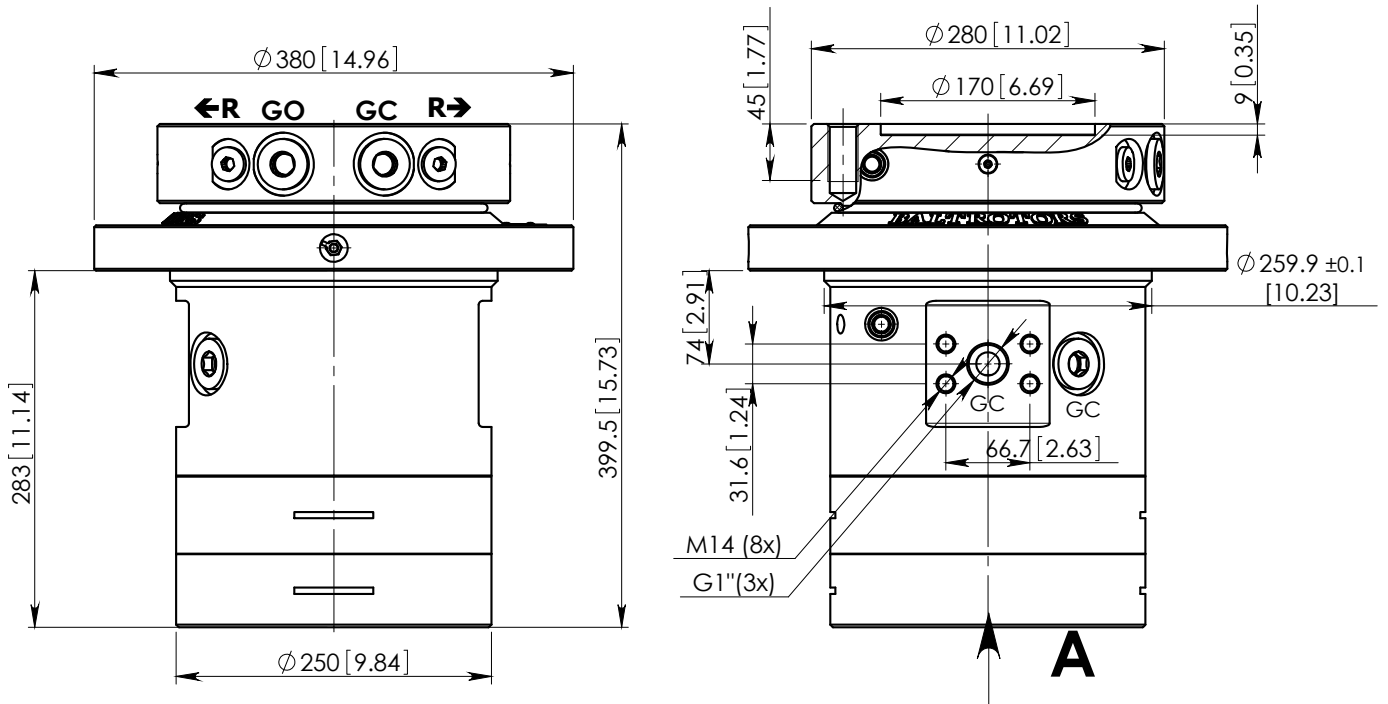
Function	Max working pressure	Rec oilflow	Connection
R - rotation	21 MPa [3045 psi]*	25 l/min [6.6 gal(US)/min]	G 1/2"
GO - grapple/tool open	32 MPa [4640 psi]*		G 3/4", SAE 1"
GC - grapple/tool close	32 MPa [4640 psi]*		G 3/4", SAE 1"

* Relief valves fitted

Sheet 1 of 3

2010.06.02.

ROTATOR GIR25



VIEW A

Technical data

Rotation	Unlimited
Max axial load static	±450 KN (101164 lbf)
Max axial load dynamic	±160 KN (35969 lbf)
Torque at 20 Mpa	3500 Nm (2581 lb ft)
Rated displacement	1304 cm ³ /rev
Rotation speed	max 25 rpm
Oil duct area for grapple	260 mm ² (0.403 in ²)
Weight	146 kg (322 lb)

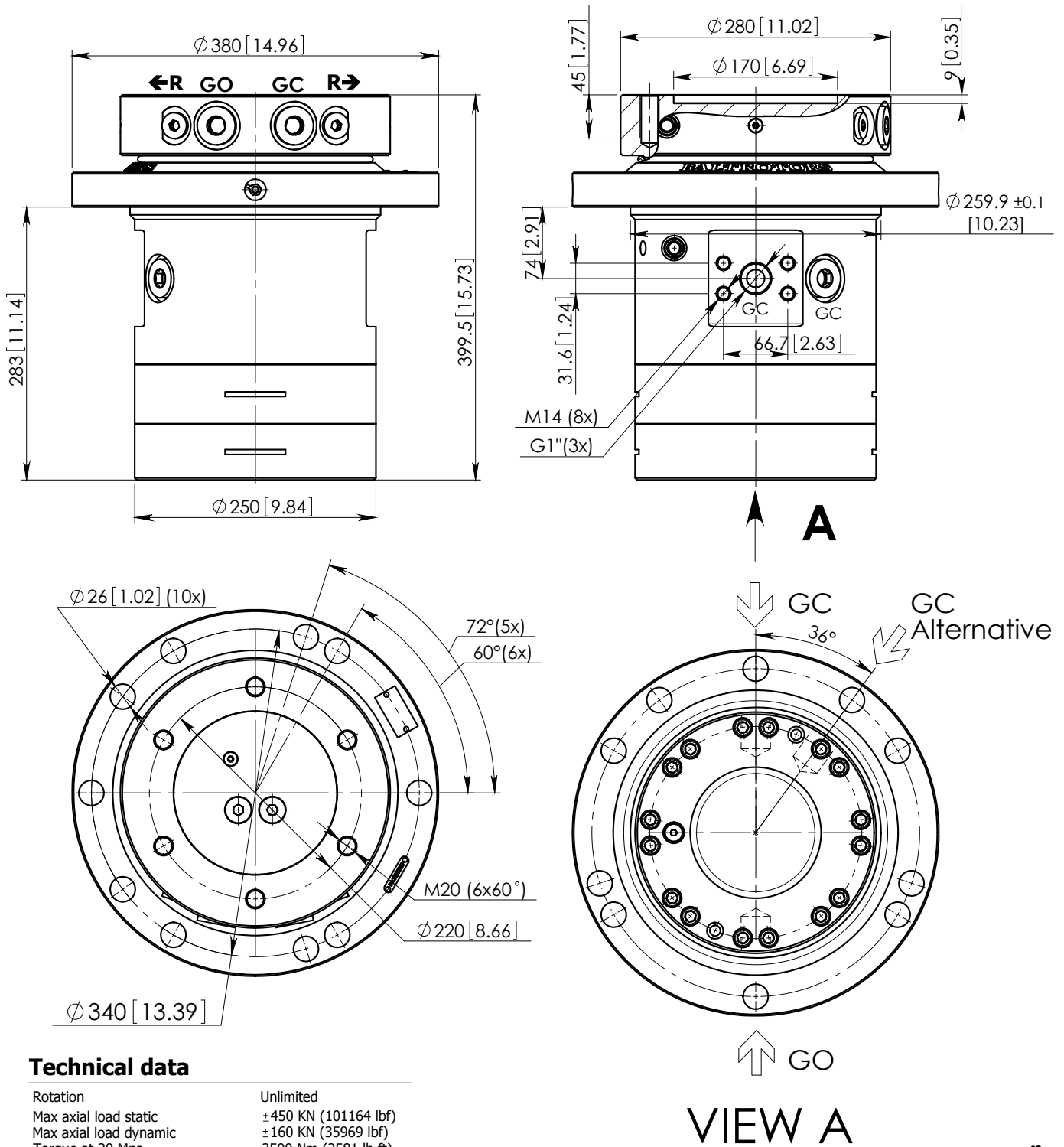
Function	Max working pressure	Rec oilflow	Connections
R - rotation	21 MPa (3045 psi)*	35l/min	G 1/2"
GO - grapple/tool open	32 MPa (4641 psi)*		G 1", SAE 1 1/4"
GC - grapple/tool close	32 MPa (4641 psi)*		G 1", SAE 1 1/4"

* Relief valve fitted

Sheet 1 of 3

11.03.2014

ROTATOR GIR25-01



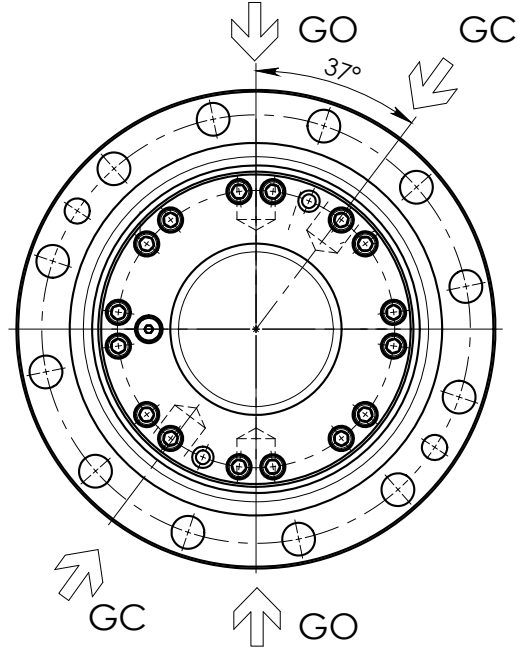
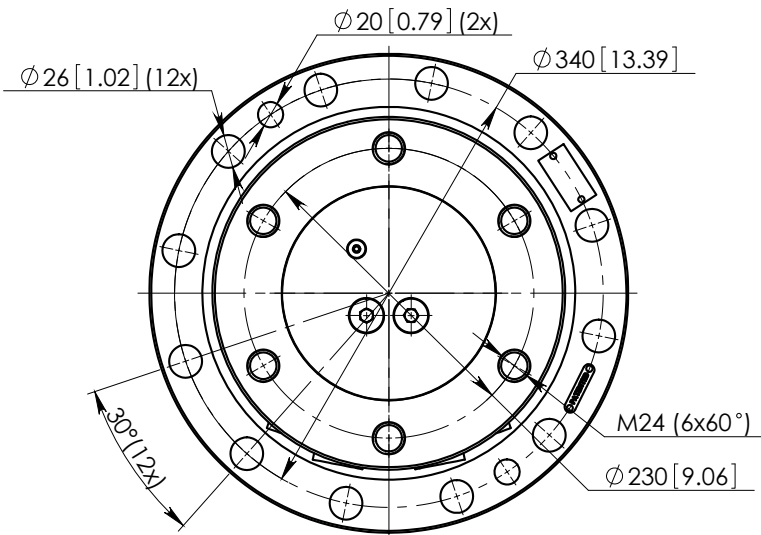
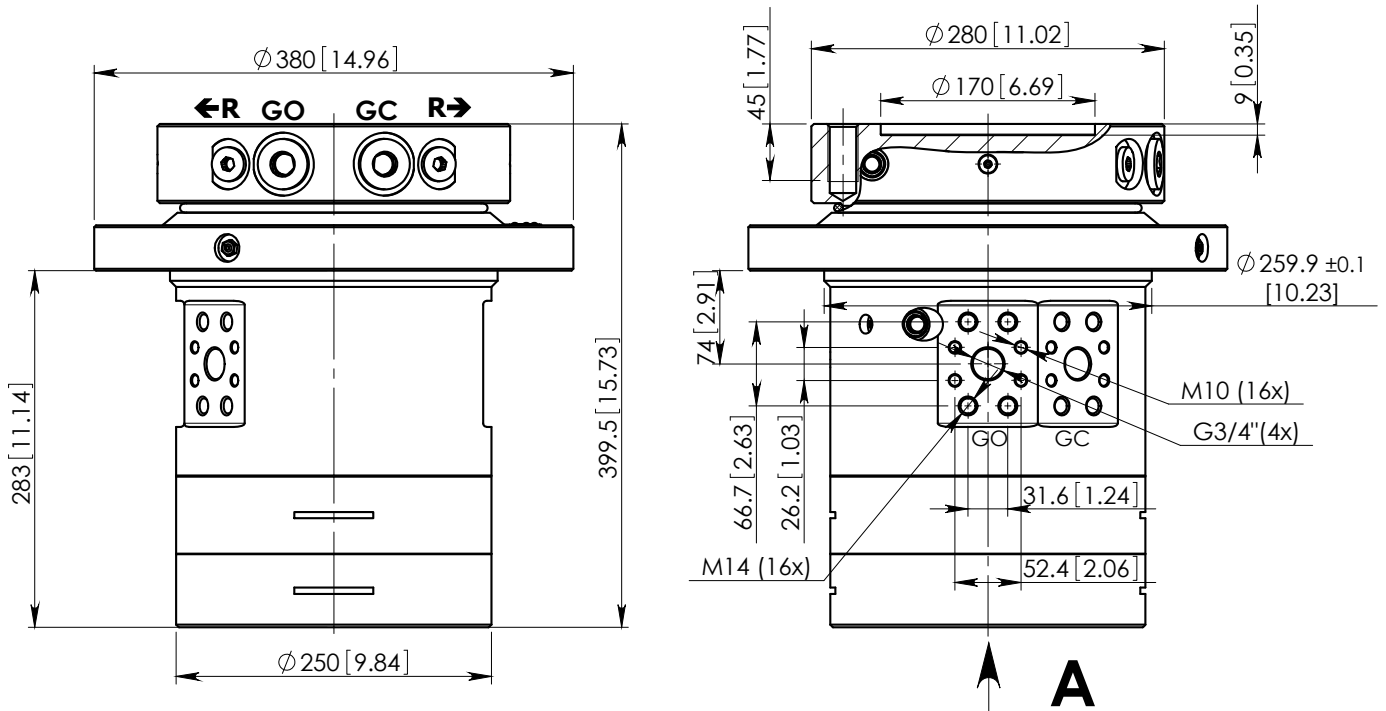
Technical data

Rotation	Unlimited
Max axial load static	±450 KN (101164 lbf)
Max axial load dynamic	±160 KN (35969 lbf)
Torque at 20 Mpa	3500 Nm (2581 lb ft)
Rated displacement	1304 cm ³ /rev
Rotation speed	max 25 rpm
Oil duct area for grapple	260 mm ² (0.403 in ²)
Weight	146 kg (322 lb)

Function	Max working pressure	Rec oilflow	Connections
R - rotation	21 MPa (3045 psi)*	35l/min	G 1/2"
GO - grapple/tool open	32 MPa (4641 psi)*		G 1", SAE 1 1/4"
GC - grapple/tool close	32 MPa (4641 psi)*		G 1", SAE 1 1/4"

* Relief valve fitted

ROTATOR GIR25-02



VIEW A

Technical data

Rotation	Unlimited
Max axial load static	±450 KN (101164 lbf)
Max axial load dynamic	±160 KN (35969 lbf)
Torque at 20 Mpa	3500 Nm (2581 lb ft)
Rated displacement	1304 cm ³ /rev
Rotation speed	max 25 rpm
Oil duct area for grapple	260 mm ² (0.403 in ²)
Weight	146 kg (322 lb)

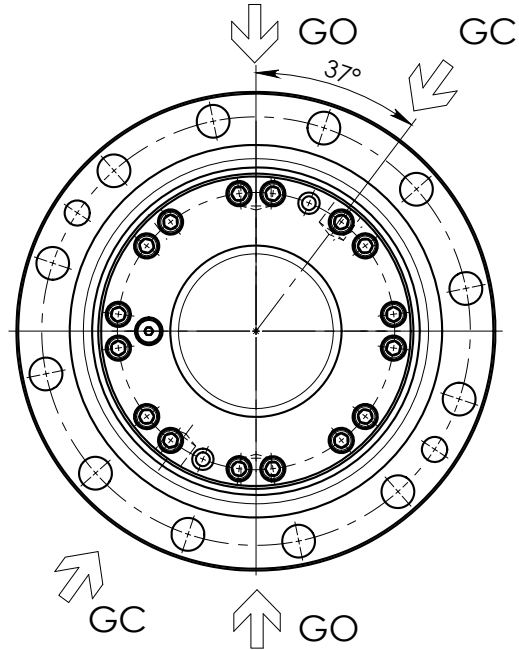
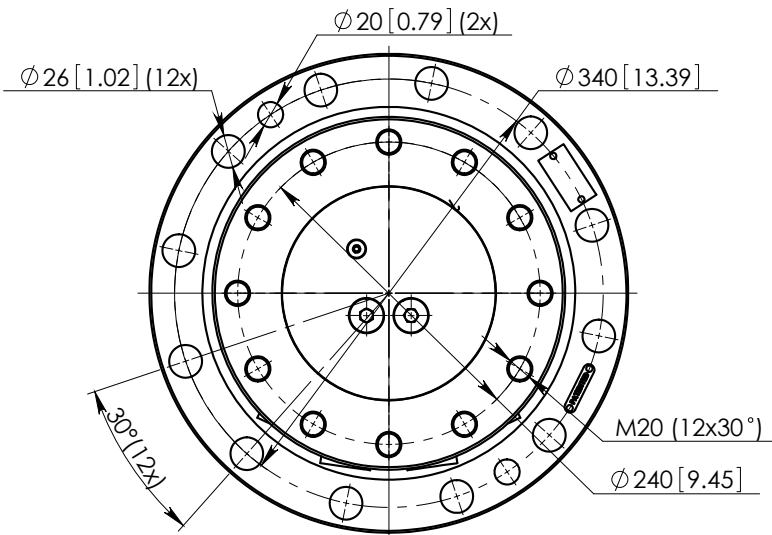
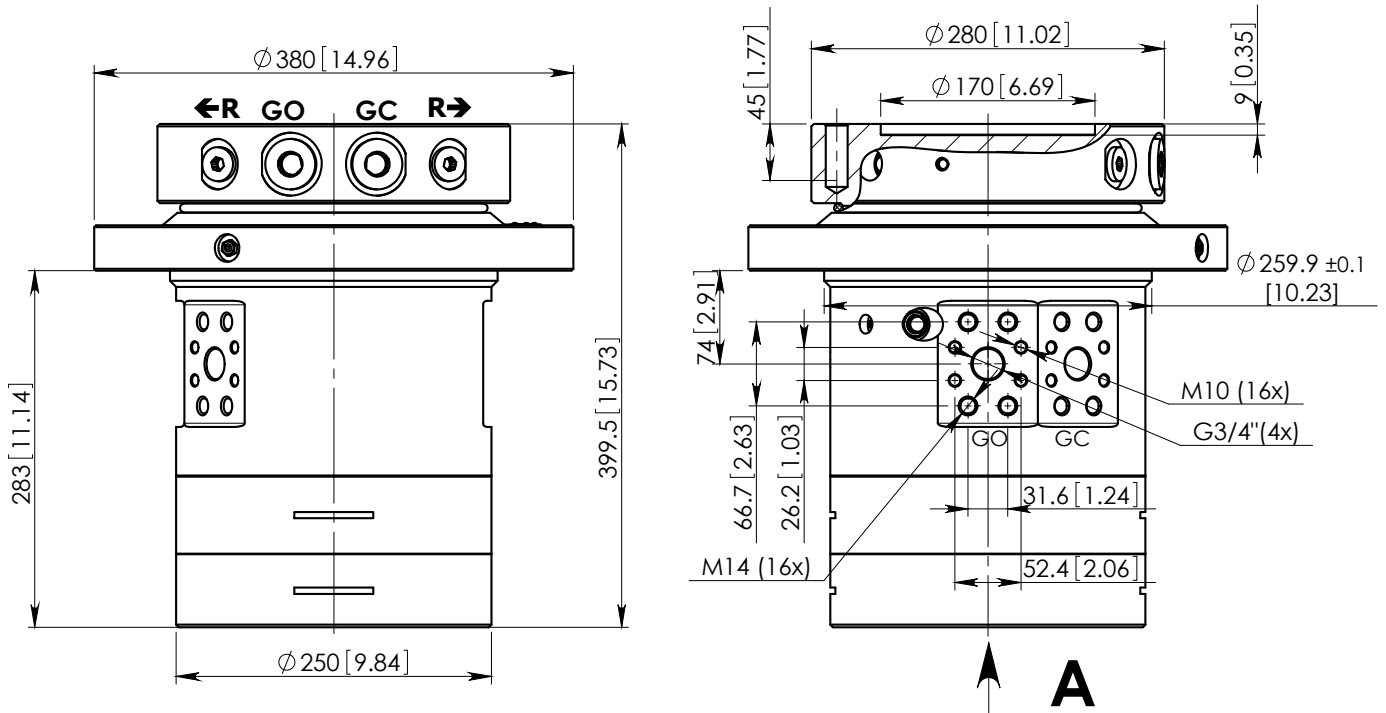
Function	Max working pressure	Rec oilflow	Connections
R - rotation	21 MPa (3045 psi)*	35l/min	G 1/2"
GO - grapple/tool open	32 MPa (4641 psi)*		G 3/4", SAE 1 1/4", SAE 1"
GC - grapple/tool close	32 MPa (4641 psi)*		G 3/4", SAE 1 1/4", SAE 1"

* Relief valve fitted

Sheet 1 of 3

11.03.2014

ROTATOR GIR25-04



VIEW A

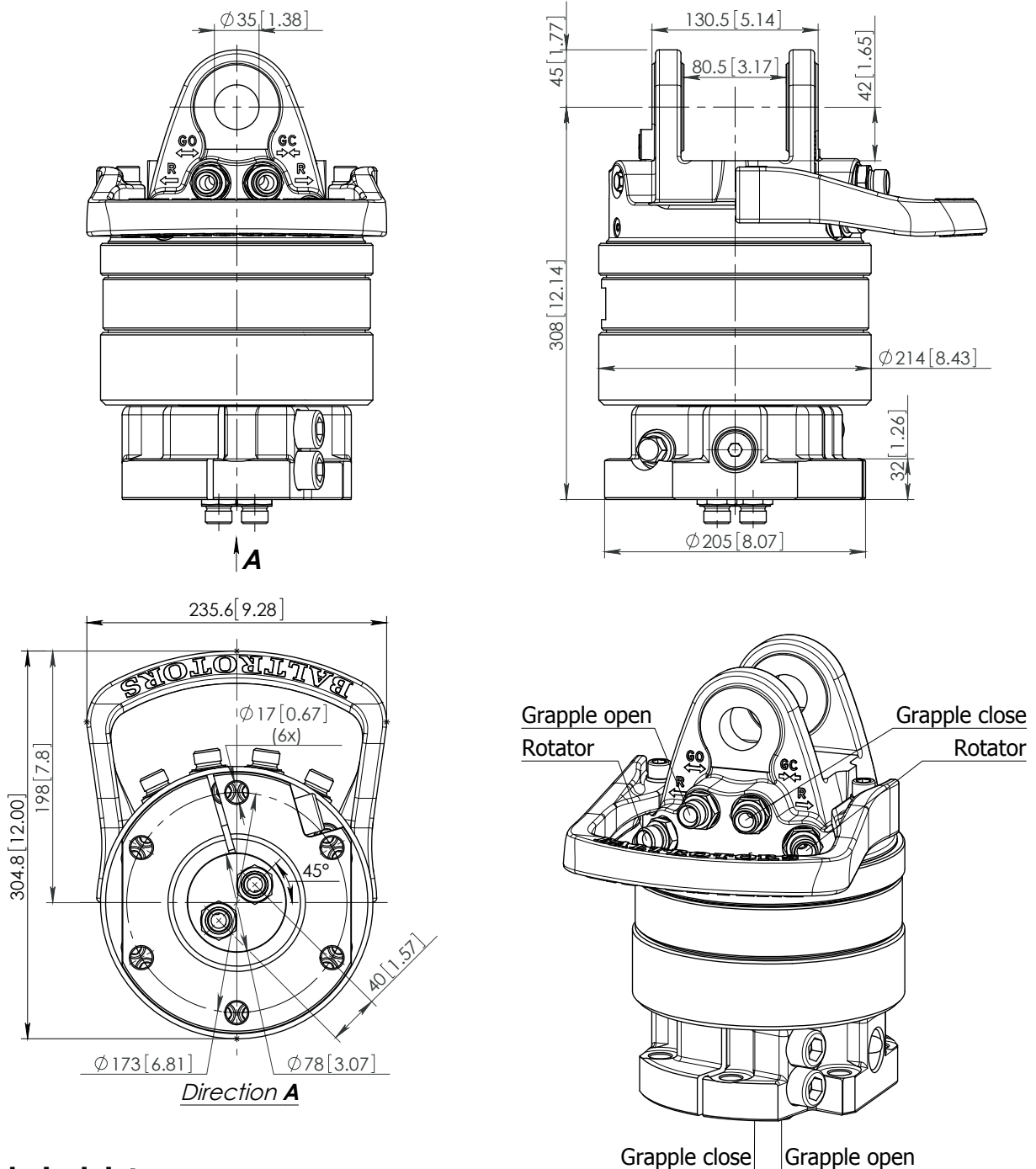
Technical data

Rotation	Unlimited
Max axial load static	±450 KN (101164 lbf)
Max axial load dynamic	±160 KN (35969 lbf)
Torque at 20 Mpa	3500 Nm (2581 lb ft)
Rated displacement	1304 cm ³ /rev
Rotation speed	max 25 rpm
Oil duct area for grapple	260 mm ² (0.403 in ²)
Weight	146 kg (322 lb)

Function	Max working pressure	Rec oilflow	Connections
R - rotation	21 MPa (3045 psi)*	35l/min	G 1/2"
GO - grapple/tool open	32 MPa (4641 psi)*		G 3/4", SAE 1 1/4", SAE 1"
GC - grapple/tool close	32 MPa (4641 psi)*		G 3/4", SAE 1 1/4", SAE 1"

* Relief valve fitted

ROTATOR GPR10



Technical data

Rotation	Unlimited
Max axial load static, KN (lbf)	100 (22485)
Max axial load dynamic, KN (lbf)	50 (11242)
Torque at 25Mpa (3625psi), Nm (lb ft)	1950 (1438)
Rec oilflow, l/min (US gallon)	22 (5.8)
Weight, kg (lb)	59 (130)

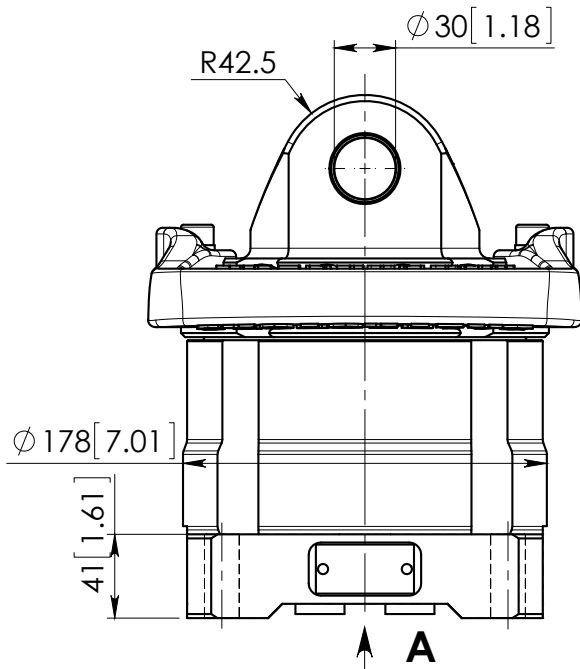
Max working pressure:

Rotator	←R→	Max 25 MPa (3625 psi)*	G 1/2"
Grapple / Tool open	←GO→	Max 30 MPa (4351 psi)	G 1/2"
Grapple / Tool close	→GC←	Max 30 MPa (4351 psi)	G 1/2"

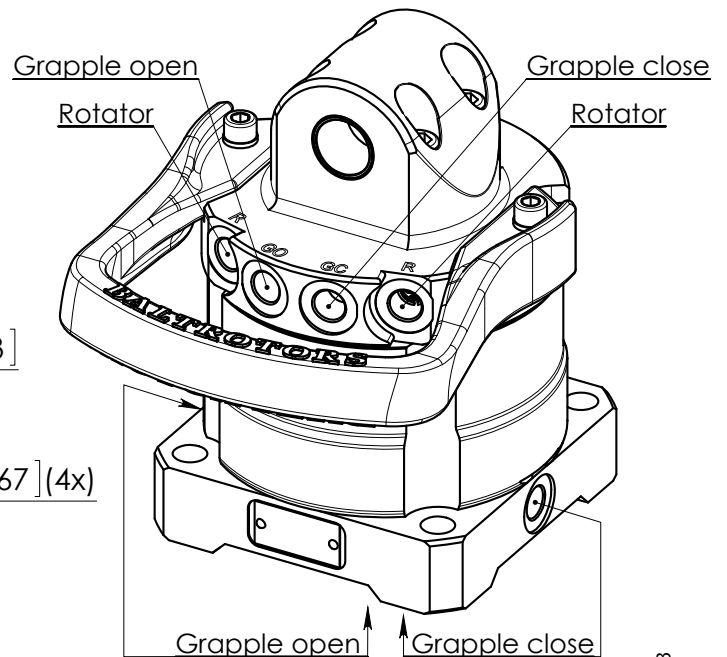
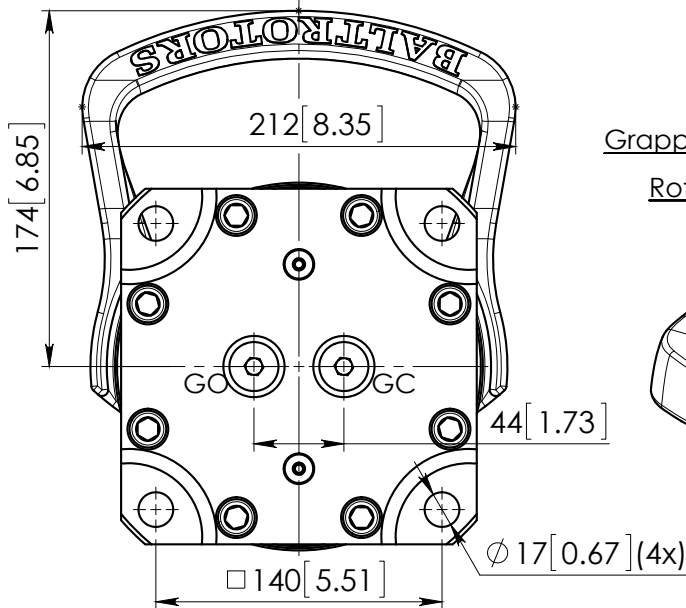
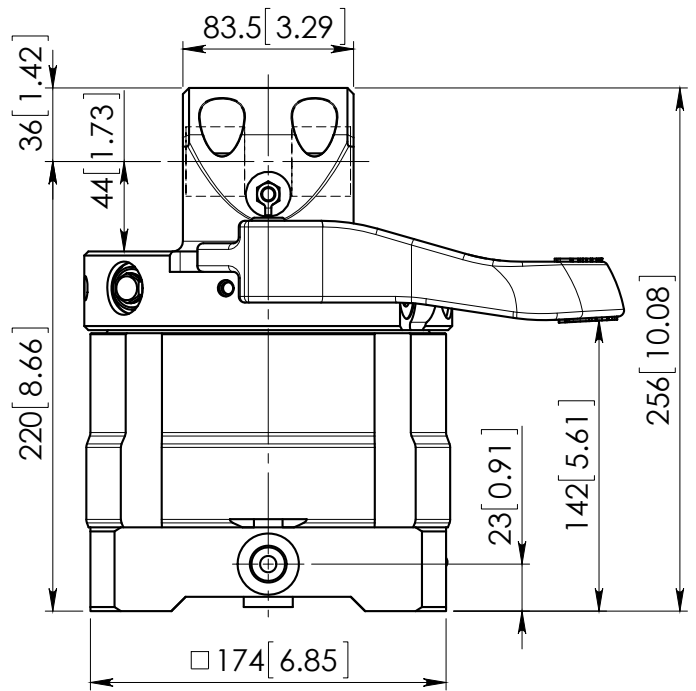
*Relief valves fitted

Connection:

ROTATOR GPRA5



VIEW A



Technical data

Rotation	Unlimited
Max axial load	50 KN (11240 lbf)
Torque at 25 Mpa (3625 psi)	1100 Nm (811 lb ft)
Rated displacement	325 cm ³ /rev. (20 in ³ /rev.)
Rotation speed	max 20 rpm
Oil duct area for grapple	50 mm ² (0.078 in ²)
Weight	36 kg (79 lb)

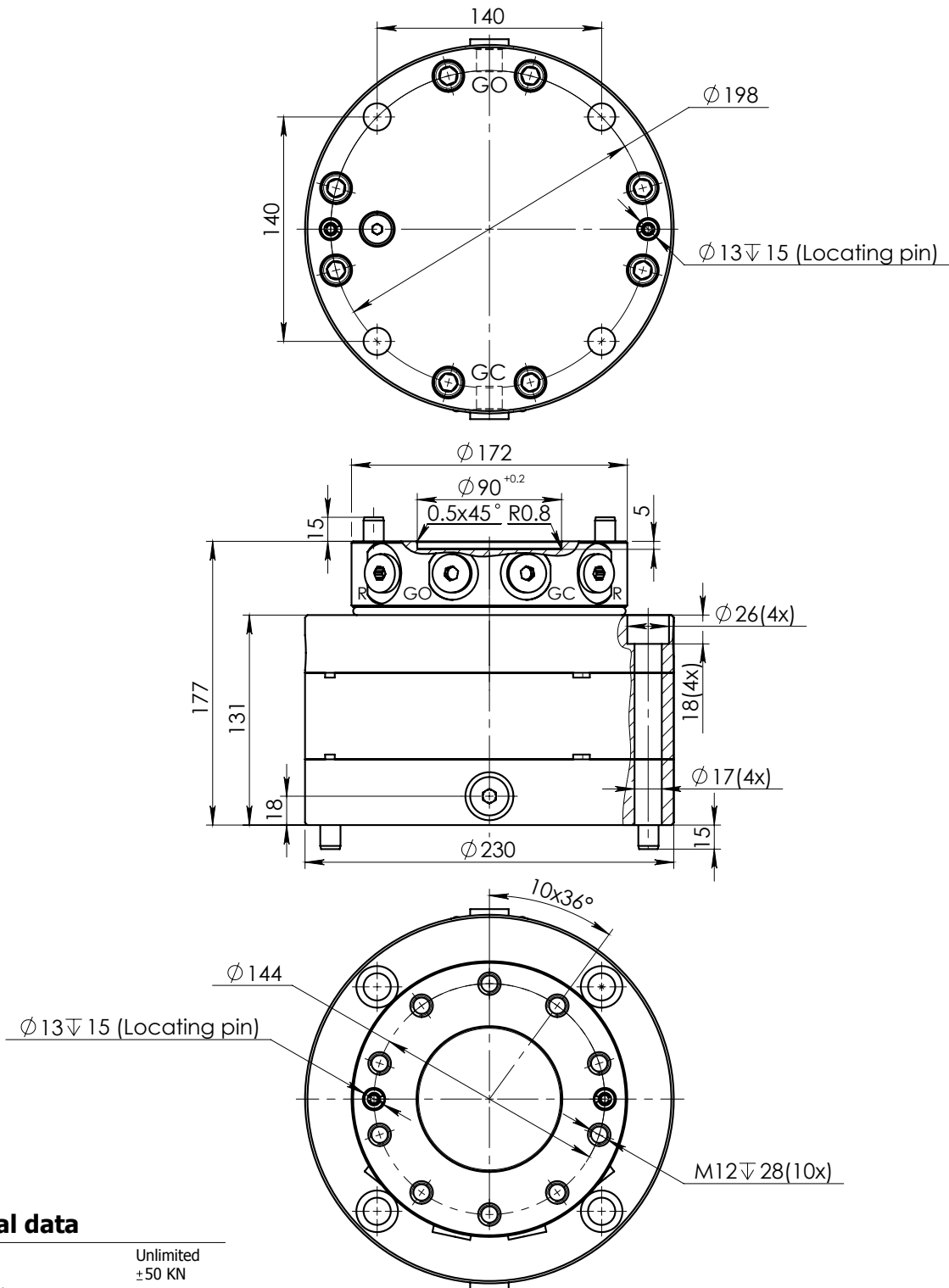
Function	Max working pressure	Rec oilflow	Connection
R - rotation	25 MPa (3625 psi)*	9 l/min (2.4 gal(US)/min)	M 18x1.5
GO - grapple/tool open	35 MPa (5076 psi)		M 18x1.5
GC - grapple/tool close	35 MPa (5076 psi)		M 18x1.5

* Relief valves fitted

Sheet 1 of 3

05.09.2014

ROTATOR CPR5



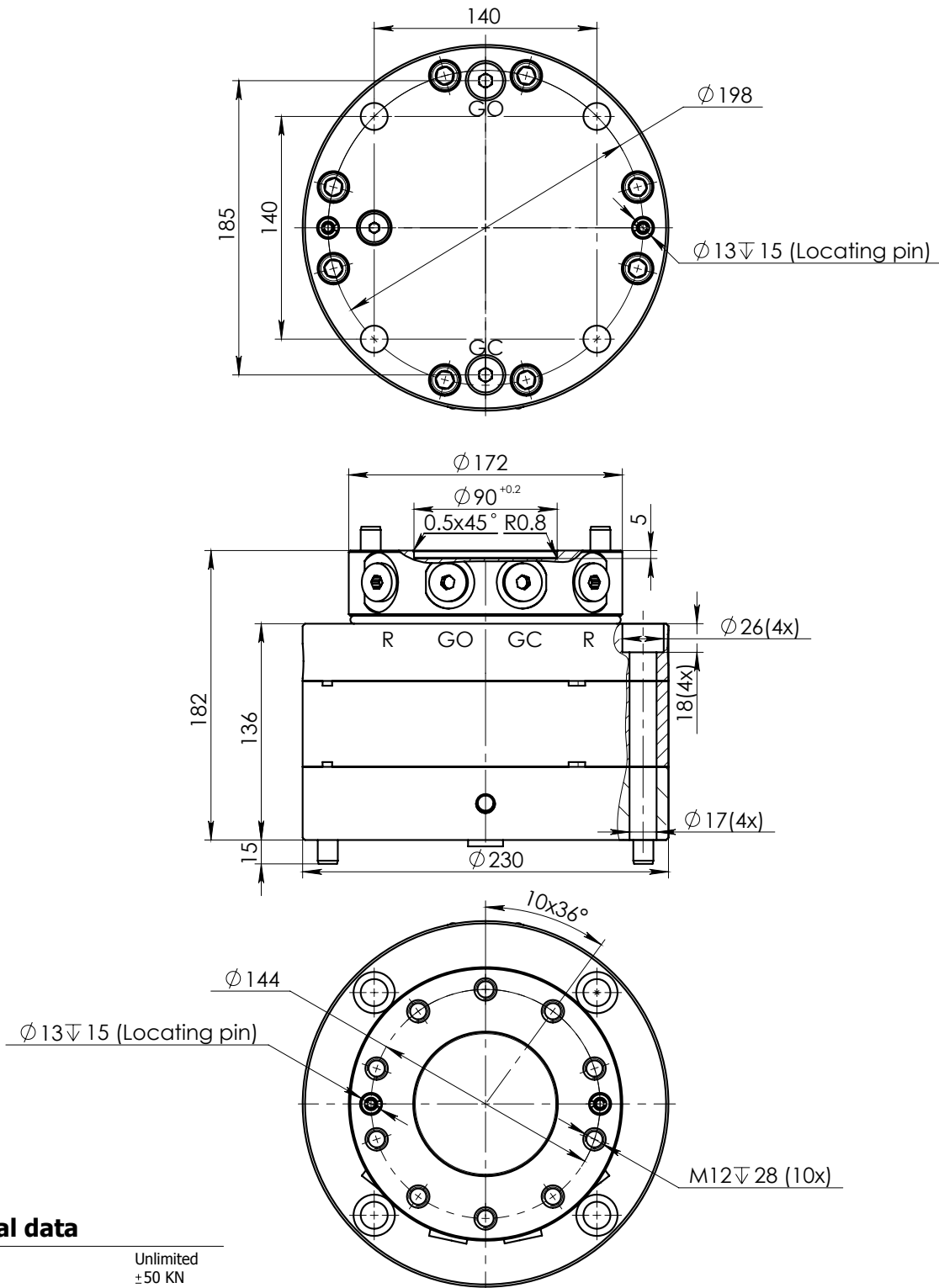
Technical data

Rotation	Unlimited
Max axial load	±50 KN
Max radial load	36 KN
Torque at 25 Mpa	1350 Nm
Rated displacement	354 cm ³ /rev.
Rotation speed	max 30 rpm
Oil duct area for grapple	95 mm ²
Weight	45 kg

Function	Max working pressure	Rec oilflow	Connection
R - rotation	25 MPa*	15 l/min	M 18x1.5
GO - grapple/tool open	35 MPa		M 18x1.5
GC - grapple/tool close	35 MPa		M 18x1.5

* Relief valves fitted

ROTATOR CPR5-01



Technical data

Rotation	Unlimited
Max axial load	±50 KN
Max radial load	36 KN
Torque at 25 Mpa	1350 Nm
Rated displacement	354 cm ³ /rev.
Rotation speed	max 30 rpm
Oil duct area for grapple	95 mm ²
Weight	45 kg

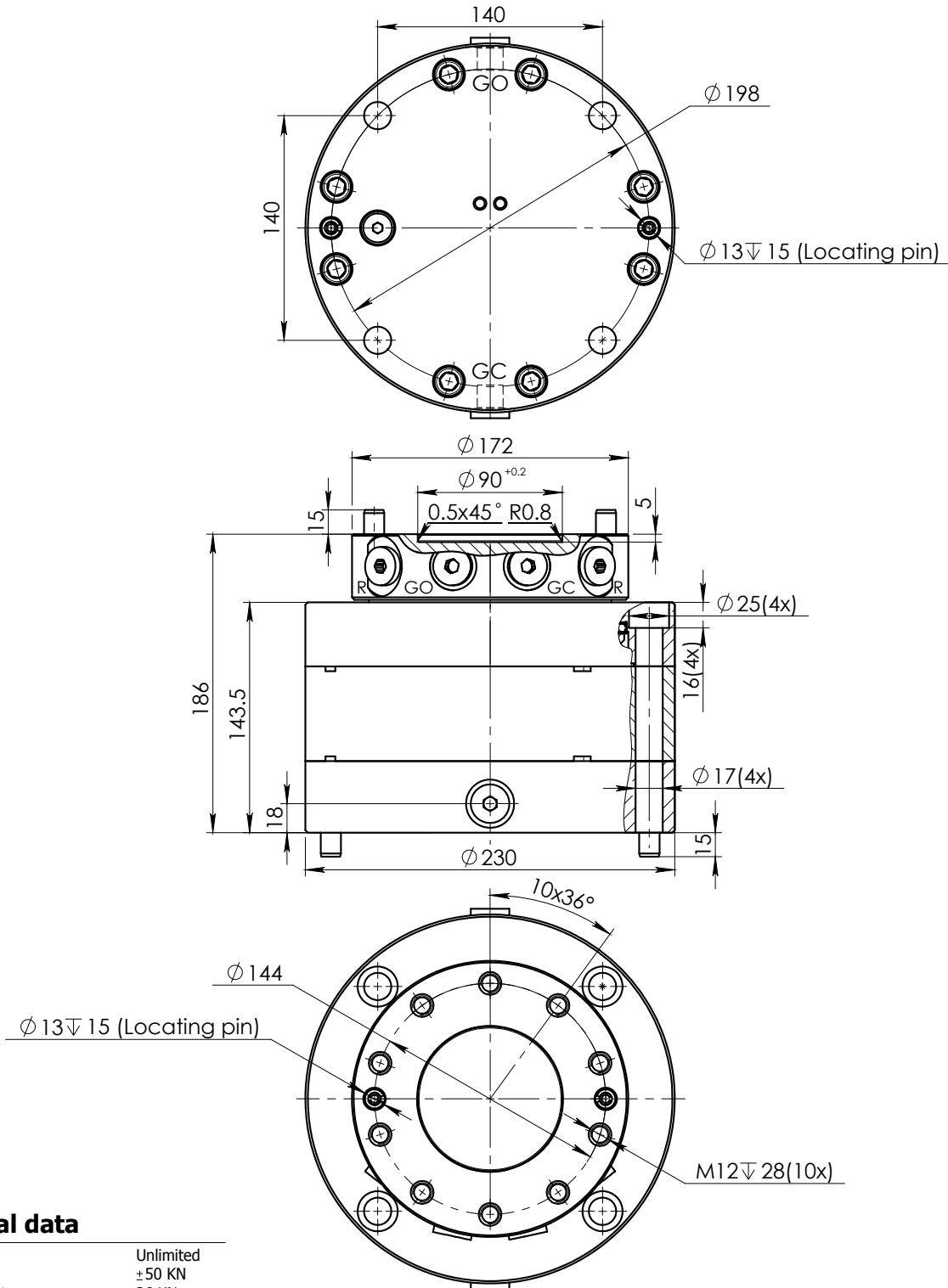
Function	Max working pressure	Rec oilflow	Connection
R - rotation	25 MPa*	15 l/min	M 18x1.5
GO - grapple/tool open	35 MPa		Upper - M 18x1.5; Lower - G 3/8"
GC - grapple/tool close	35 MPa		Upper - M 18x1.5; Lower - G 3/8"

* Relief valves fitted

Sheet 1 of 3

07.10.2015.

INDUSTRIAL ROTATOR CPR5-03



Technical data

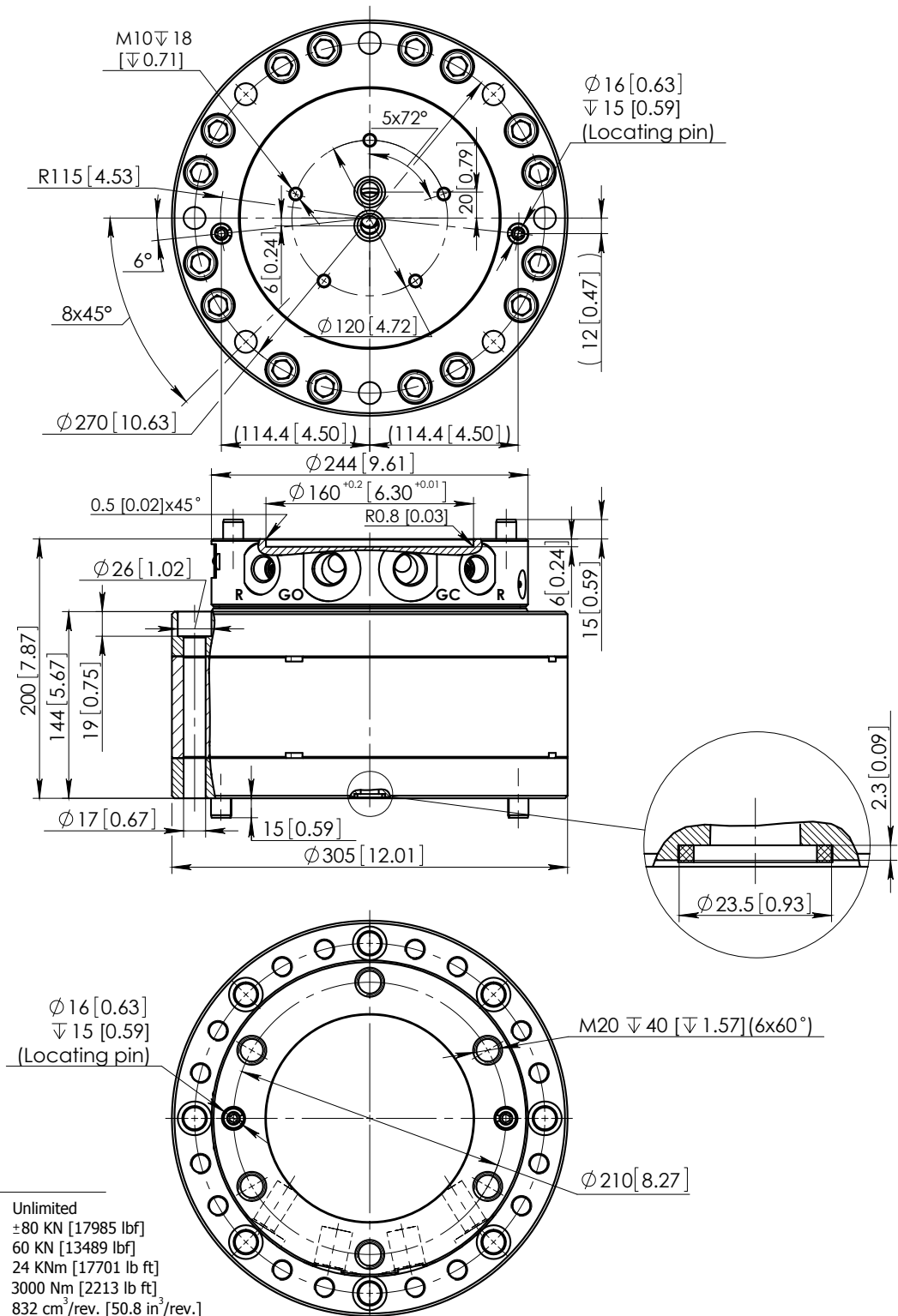
Rotation	Unlimited
Max axial load	± 50 KN
Max radial load	36 KN
Torque at 25 Mpa	1350 Nm
Rated displacement	354 cm ³ /rev.
Rotation speed	max 30 rpm
Oil duct area for grapple	95 mm ²
Weight	45 kg

Function	Max working pressure	Rec oilflow	Connection
R - rotation	25 MPa*	15 l/min	M 18x1.5
GO - grapple/tool open	35 MPa		M 18x1.5
GC - grapple/tool close	35 MPa		M 18x1.5

* Relief valves fitted

INDUSTRIAL ROTATOR CPR8

(PATENTED)



Technical data

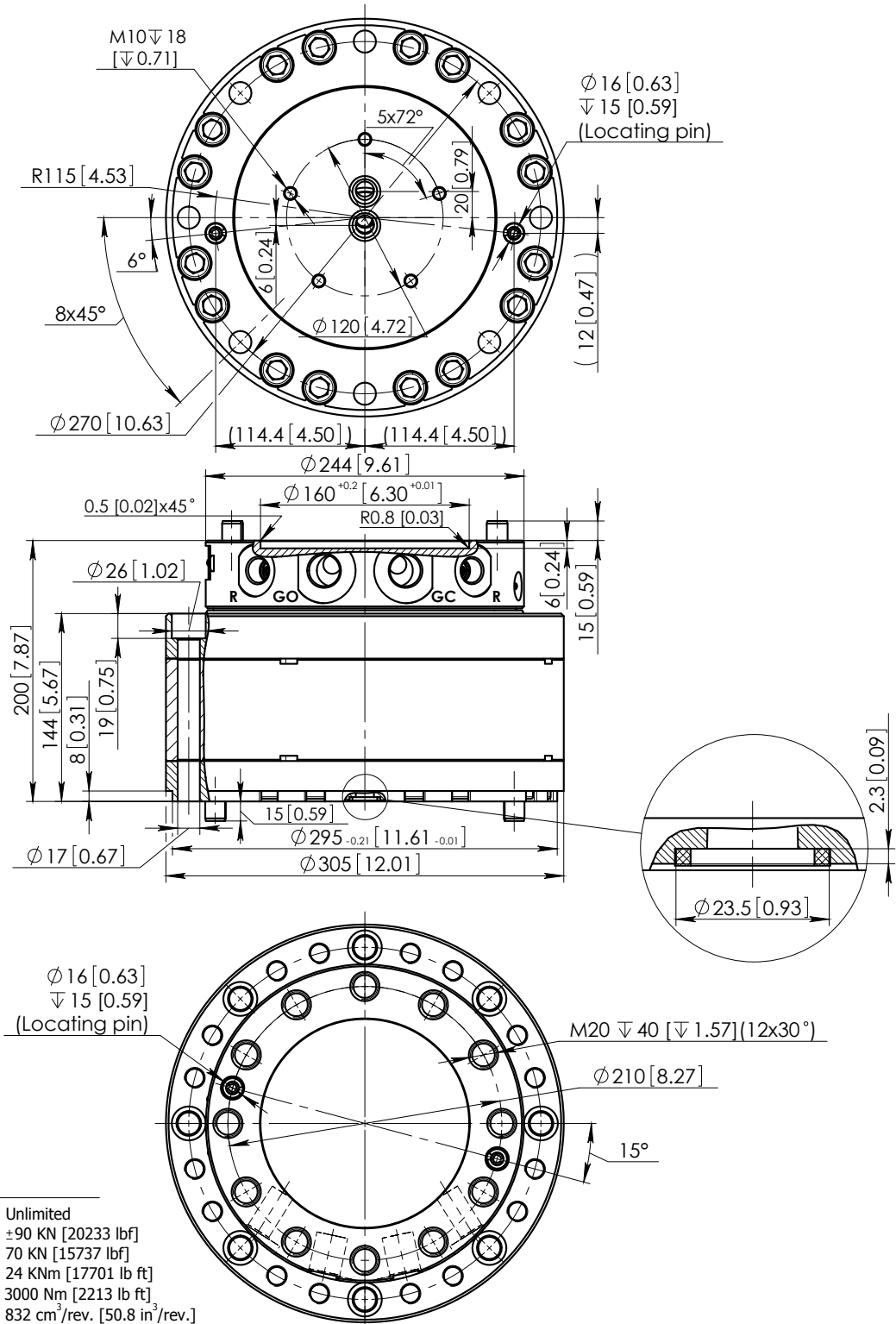
Rotation	Unlimited
Max axial load	± 80 kN [17985 lbf]
Max radial load	60 kN [13489 lbf]
Moment of deflection	24 kNm [17701 lb ft]
Torque at 25 Mpa	3000 Nm [2213 lb ft]
Rated displacement	832 cm ³ /rev. [50.8 in ³ /rev.]
Rotation speed	max 30 rpm
Oil duct area for grapple	150 mm ² [0.232 in ²]
Weight	92 kg [203 lb]

Function	Max working pressure	Rec oilflow	Connection
R - rotation	25 MPa [3625 psi] *	30 l/min [7.9 gal(US)/min]	G 1/2
GO - grapple/tool open	35 MPa [5076 psi]		G 3/4
GC - grapple/tool close	35 MPa [5076 psi]		G 3/4

* Relief valves fitted

INDUSTRIAL ROTATOR **CPR9**

(PATENTED)



Technical data

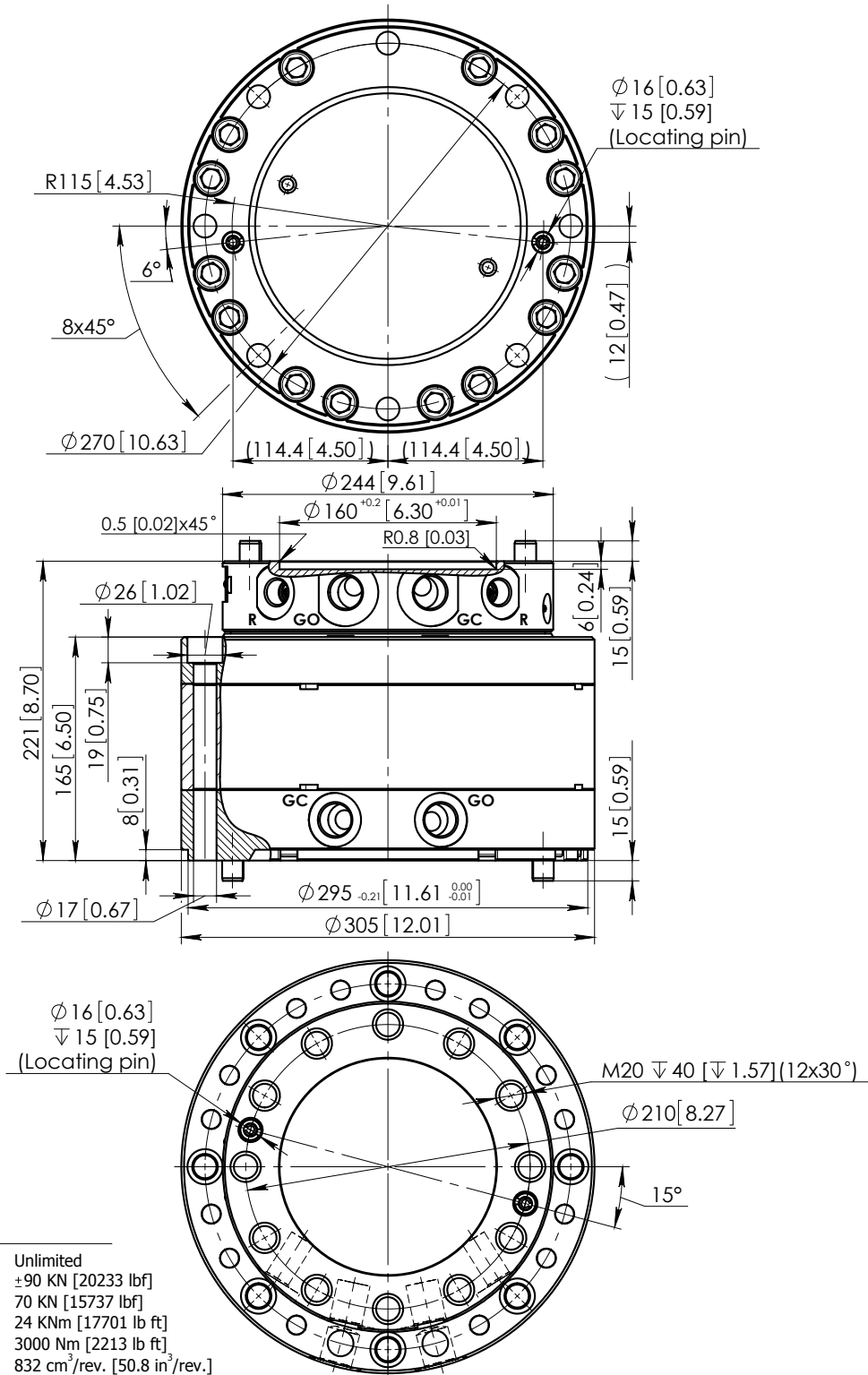
Rotation	Unlimited
Max axial load	± 90 KN [20233 lbf]
Max radial load	70 KN [15737 lbf]
Moment of deflection	24 KNm [17701 lb ft]
Torque at 25 Mpa	3000 Nm [2213 lb ft]
Rated displacement	832 cm ³ /rev. [50.8 in ³ /rev.]
Rotation speed	max 30 rpm
Oil duct area for grapple	150 mm ² [0.232 in ²]
Weight	91 kg [201 lb]

Function	Max working pressure	Rec oilflow	Connection
R - rotation	25 MPa [3625 psi] *	30 l/min [7.9 gal(US)/min]	G 1/2
GO - grapple/tool open	35 MPa [5076 psi]		G 3/4
GC - grapple/tool close	35 MPa [5076 psi]		G 3/4

* Relief valves fitted

INDUSTRIAL ROTATOR **CPR9-01**

(PATENTED)



Technical data

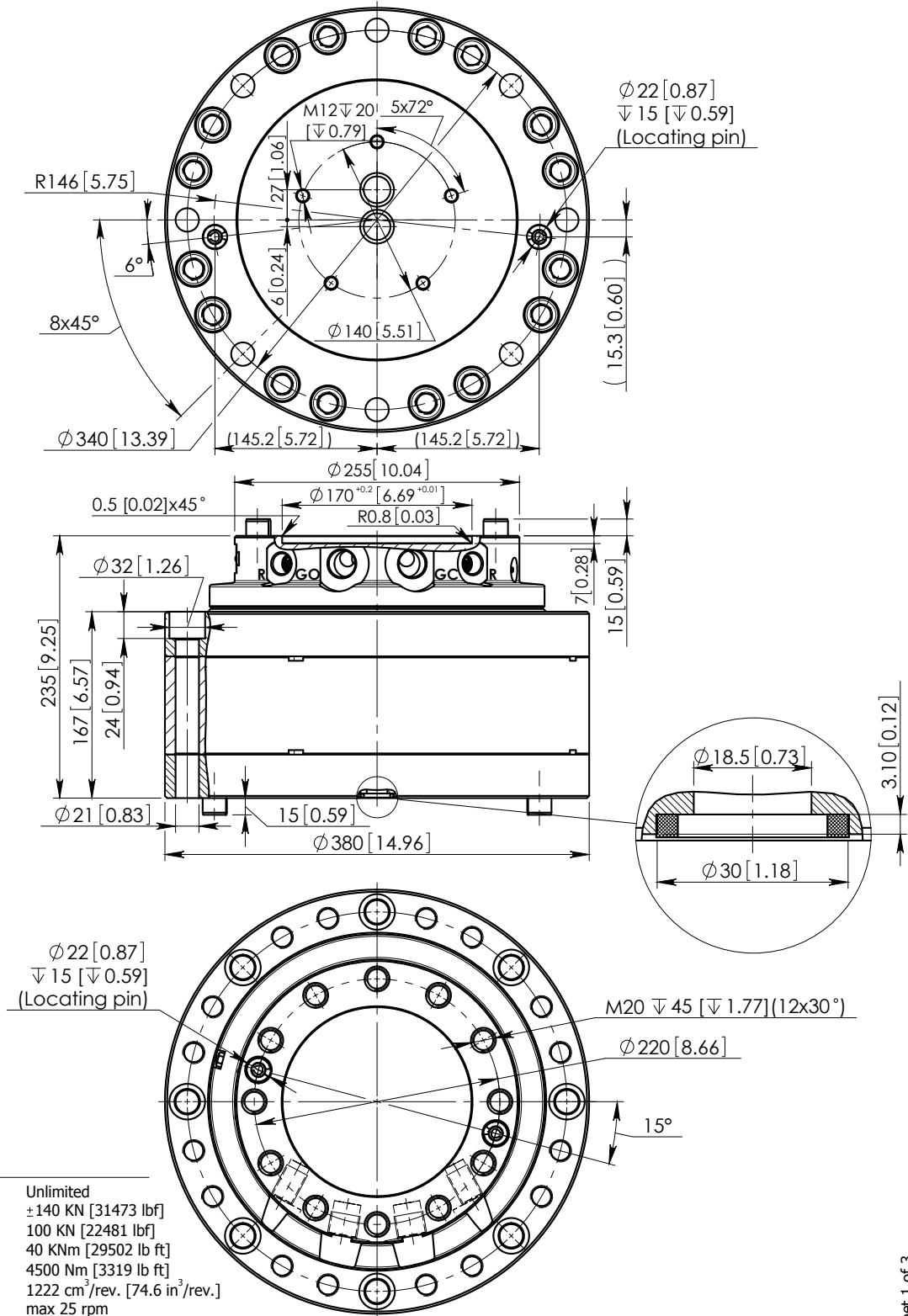
Rotation	Unlimited
Max axial load	±90 kN [20233 lbf]
Max radial load	70 kN [15737 lbf]
Moment of deflection	24 kNm [17701 lb ft]
Torque at 25 Mpa	3000 Nm [2213 lb ft]
Rated displacement	832 cm ³ /rev. [50.8 in ³ /rev.]
Rotation speed	max 30 rpm
Oil duct area for grapple	150 mm ² [0.232 in ²]
Weight	101 kg [222 lb]

Function	Max working pressure	Rec oilflow	Connection
R - rotation	25 MPa [3625 psi] *	30 l/min [7.9 gal(US)/min]	G 1/2
GO - grapple/tool open	35 MPa [5076 psi]		G 3/4
GC - grapple/tool close	35 MPa [5076 psi]		G 3/4

* Relief valves fitted

INDUSTRIAL ROTATOR **CPR14**

(PATENTED)



Technical data

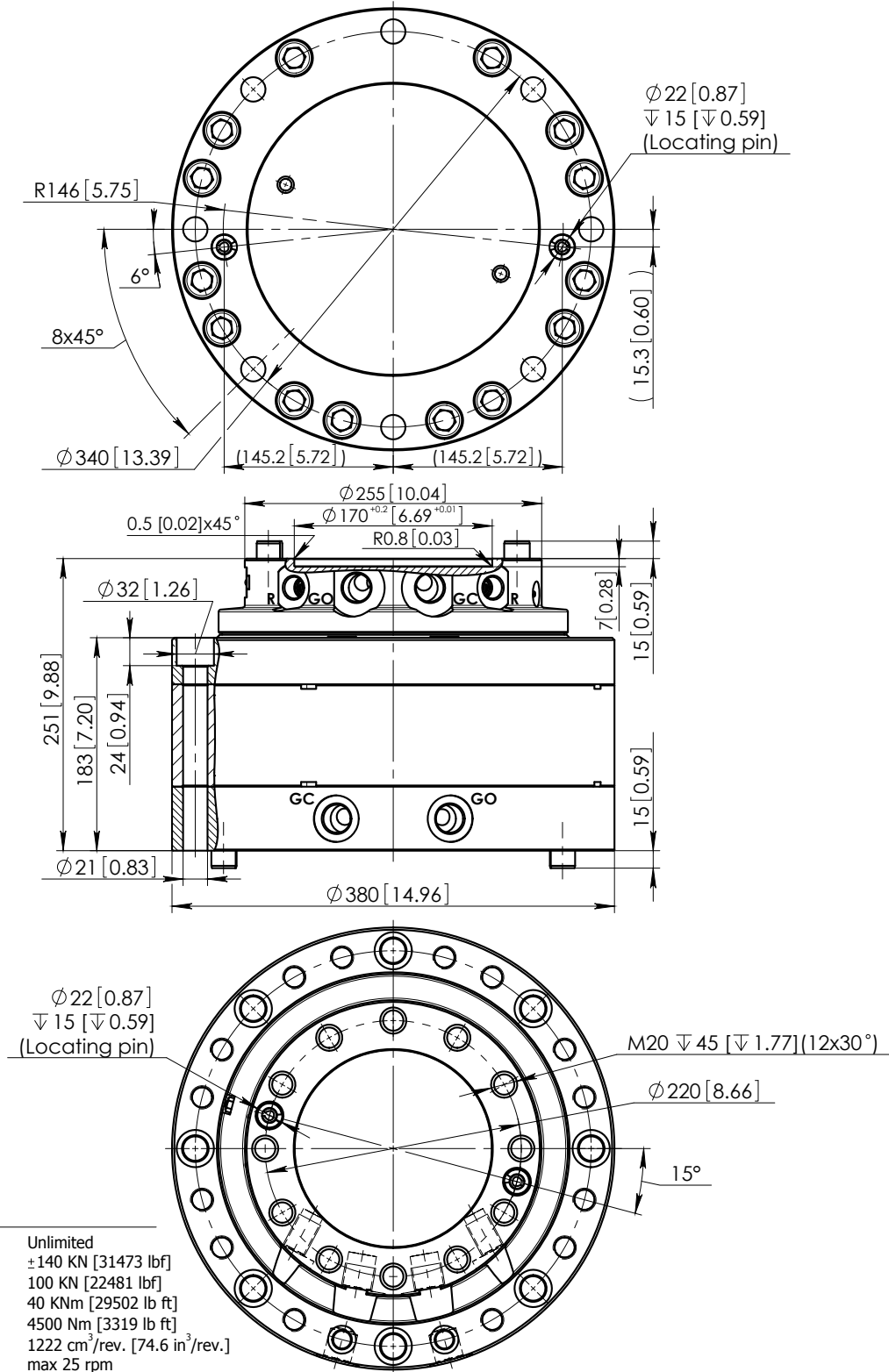
Rotation	Unlimited
Max axial load	±140 KN [31473 lbf]
Max radial load	100 KN [22481 lbf]
Moment of deflection	40 KNm [29502 lb ft]
Torque at 25 Mpa	4500 Nm [3319 lb ft]
Rated displacement	1222 cm ³ /rev. [74.6 in ³ /rev.]
Rotation speed	max 25 rpm
Oil duct area for grapple	260 mm ² [0.403 in ²]
Weight	159 kg [350 lb]

Function	Max working pressure	Rec oilflow	Connection
R - rotation	25 MPa [3625 psi] *	35 l/min [9.2 gal(US)/min]	G 1/2
GO - grapple/tool open	35 MPa [5076 psi]		G 3/4
GC - grapple/tool close	35 MPa [5076 psi]		G 3/4

* Relief valves fitted

INDUSTRIAL ROTATOR **CPR14-01**

(PATENTED)



Technical data

Rotation	Unlimited
Max axial load	±140 KN [31473 lbf]
Max radial load	100 KN [22481 lbf]
Moment of deflection	40 KNm [29502 lb ft]
Torque at 25 Mpa	4500 Nm [3319 lb ft]
Rated displacement	1222 cm ³ /rev. [74.6 in ³ /rev.]
Rotation speed	max 25 rpm
Oil duct area for grapple	260 mm ² [0.403 in ²]
Weight	172 kg [379 lb]

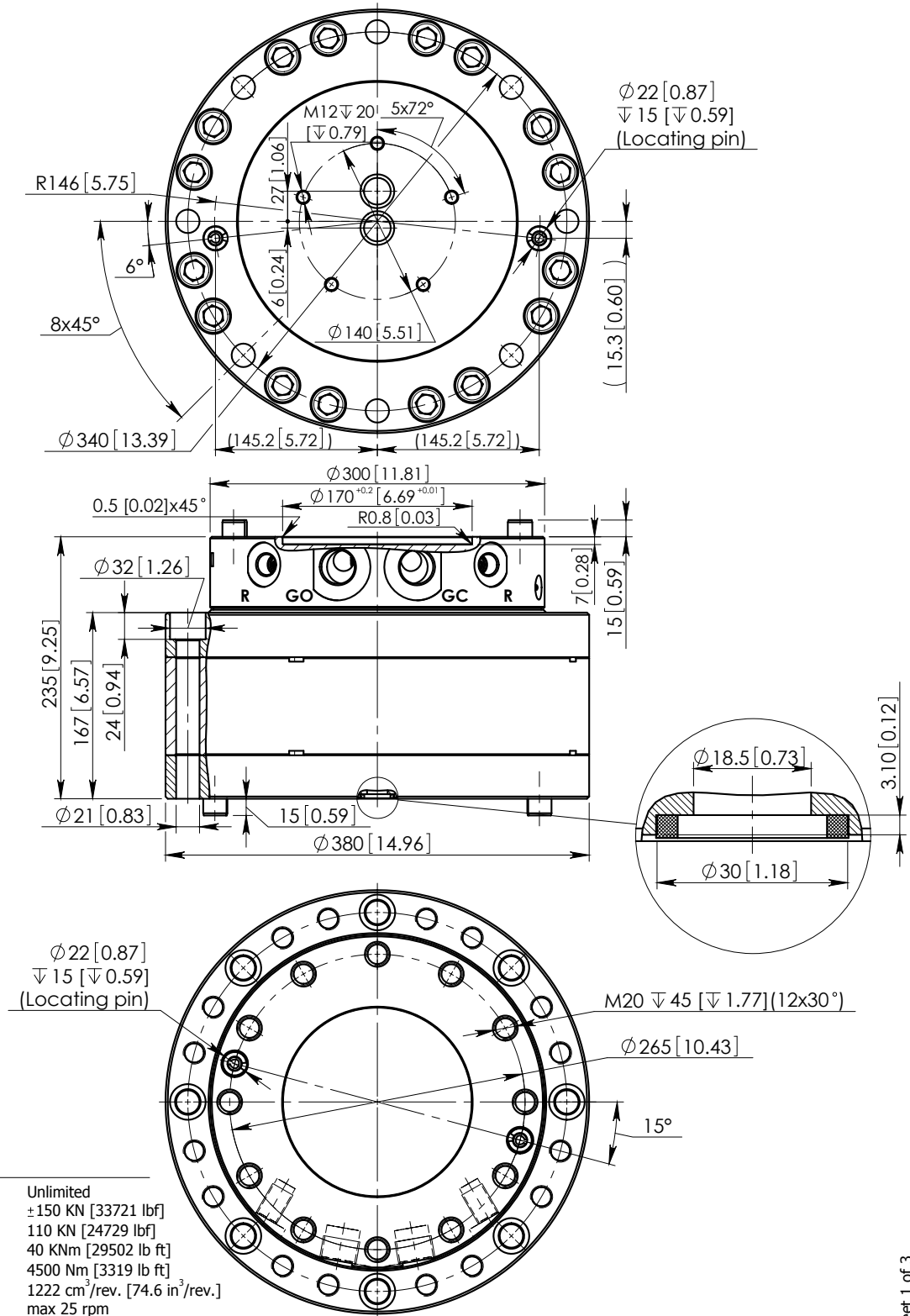
Function	Max working pressure	Rec oilflow	Connection
R - rotation	25 MPa [3625 psi] *	35 l/min [9.2 gal(US)/min]	G 1/2
GO - grapple/tool open	35 MPa [5076 psi]		G 3/4
GC - grapple/tool close	35 MPa [5076 psi]		G 3/4

* Relief valves fitted

Sheet 1 of 3

15.07.2014

INDUSTRIAL ROTATOR CPR15 (PATENTED)



Technical data

Rotation	Unlimited
Max axial load	± 150 KN [33721 lbf]
Max radial load	110 KN [24729 lbf]
Moment of deflection	40 KNm [29502 lb ft]
Torque at 25 Mpa	4500 Nm [3319 lb ft]
Rated displacement	1222 cm ³ /rev. [74.6 in ³ /rev.]
Rotation speed	max 25 rpm
Oil duct area for grapple	260 mm ² [0.403 in ²]
Weight	165 kg [365 lb]

Function	Max working pressure	Rec oilflow	Connection
R - rotation	25 MPa [3625 psi] *	35 l/min [9.2 gal(US)/min]	G 1/2
GO - grapple/tool open	35 MPa [5076 psi]		G 1
GC - grapple/tool close	35 MPa [5076 psi]		G 1

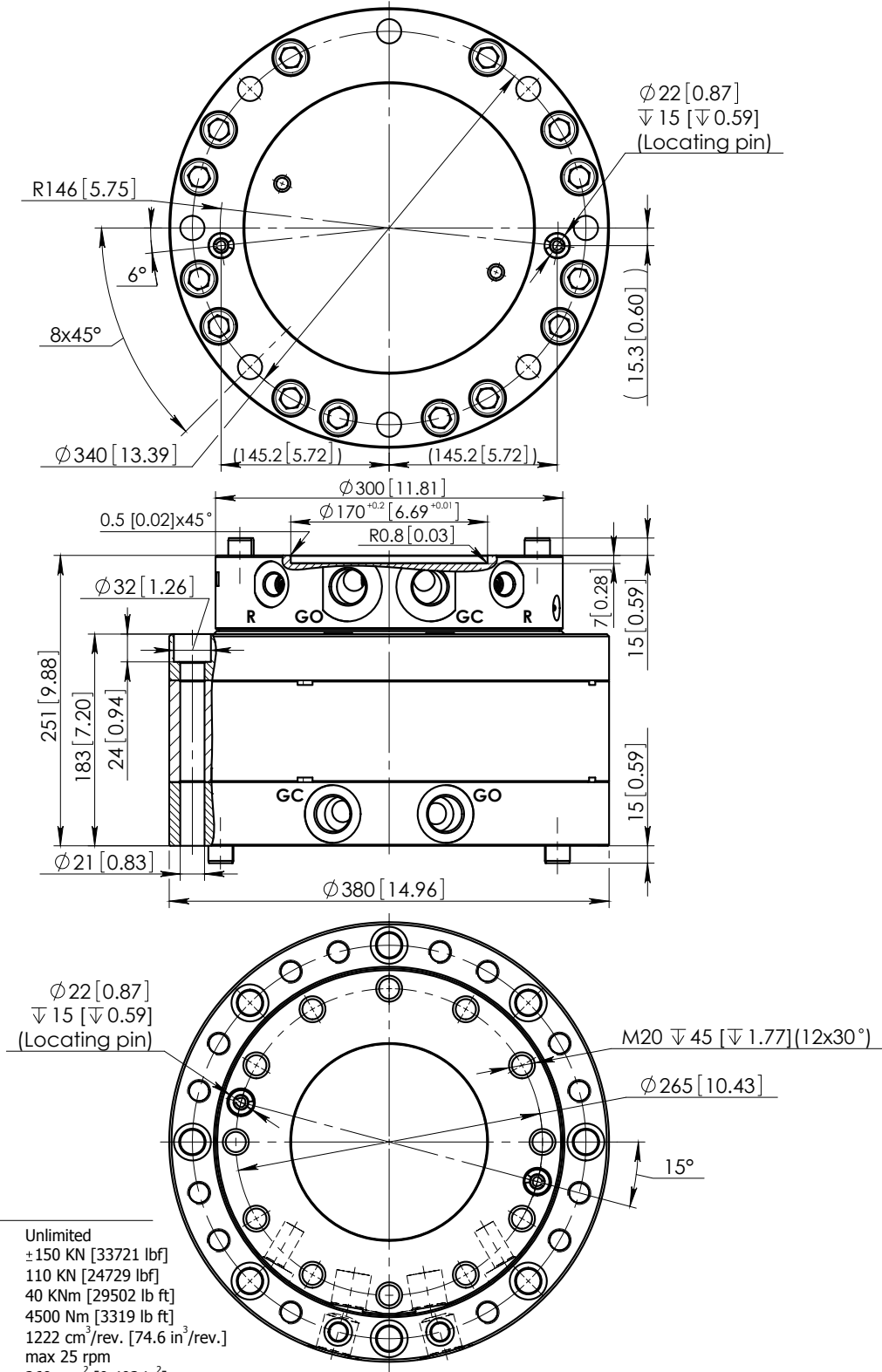
* Relief valves fitted

Sheet 1 of 3

02.07.2014

INDUSTRIAL ROTATOR **CPR15-01**

(PATENTED)



Technical data

Rotation	Unlimited
Max axial load	±150 kN [33721 lbf]
Max radial load	110 kN [24729 lbf]
Moment of deflection	40 kNm [29502 lb ft]
Torque at 25 Mpa	4500 Nm [3319 lb ft]
Rated displacement	1222 cm ³ /rev. [74.6 in ³ /rev.]
Rotation speed	max 25 rpm
Oil duct area for grapple	260 mm ² [0.403 in ²]
Weight	178 kg [392 lb]

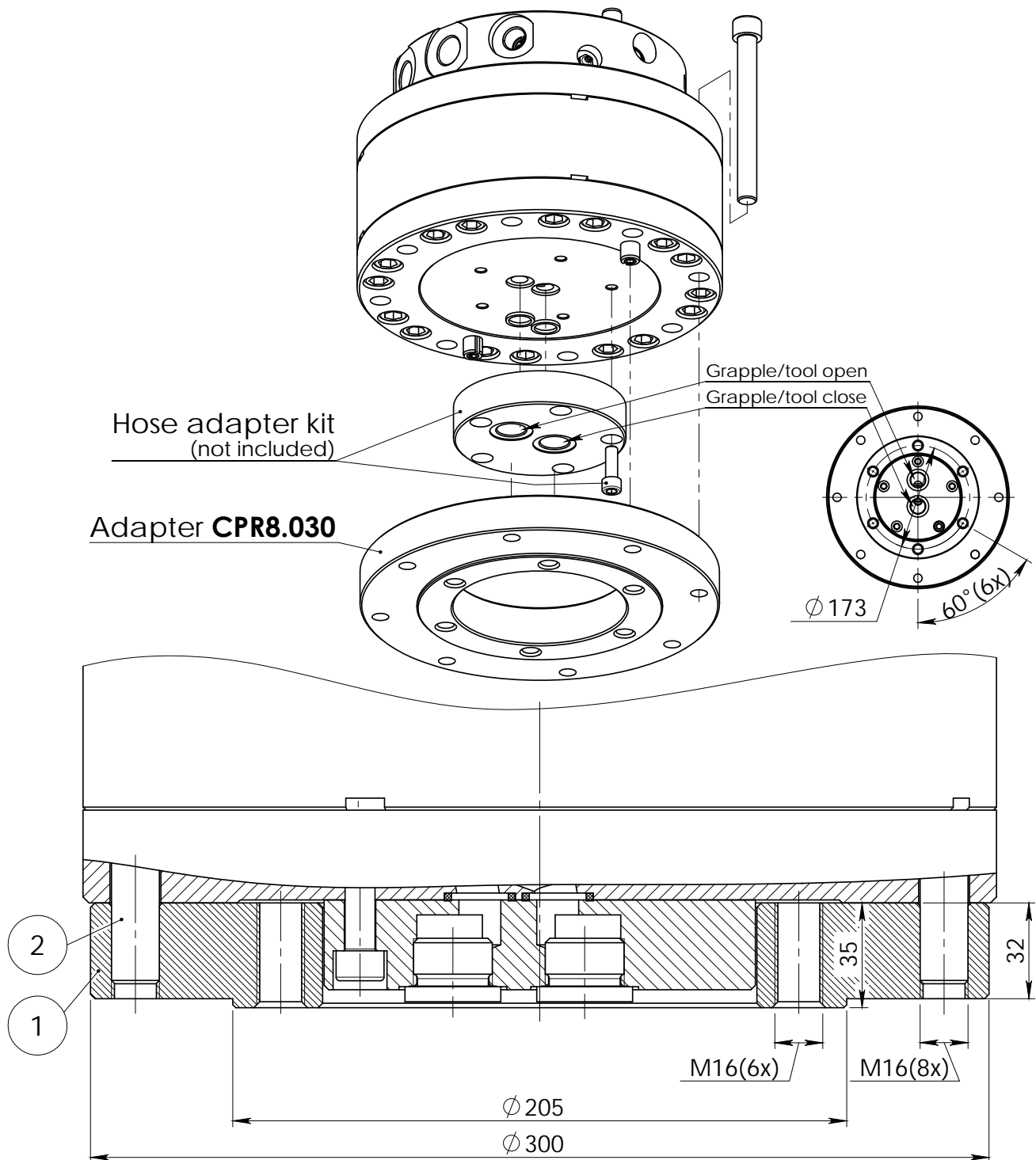
Function	Max working pressure	Rec oilflow	Connection
R - rotation	25 MPa [3625 psi] *	35 l/min [9.2 gal(US)/min]	G 1/2
GO - grapple/tool open	35 MPa [5076 psi]		G 1
GC - grapple/tool close	35 MPa [5076 psi]		G 1

* Relief valves fitted

Sheet 1 of 3

15.07.2014

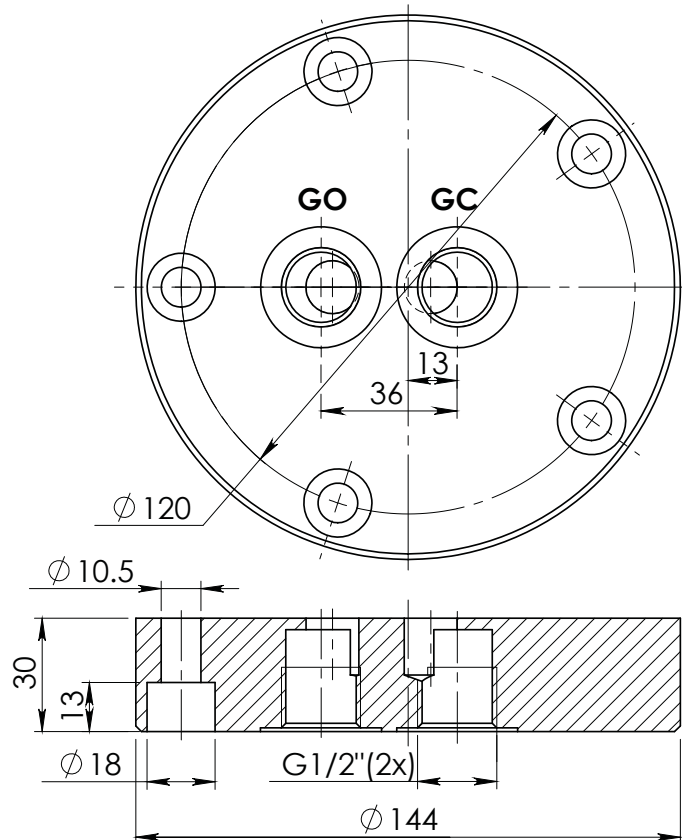
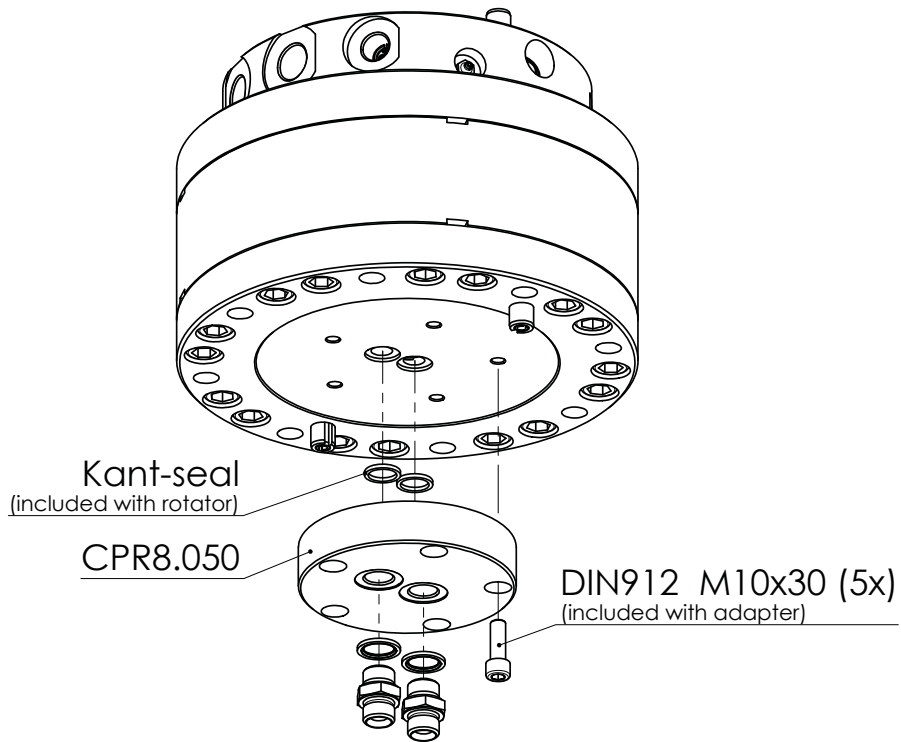
Adapter **CPR8.030** for Industrial rotator **CPR8** series



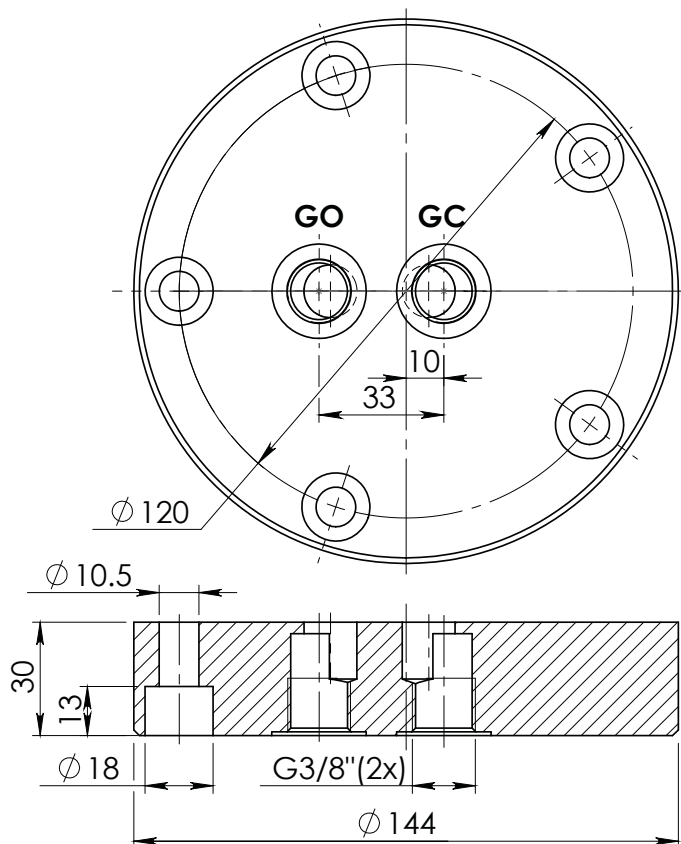
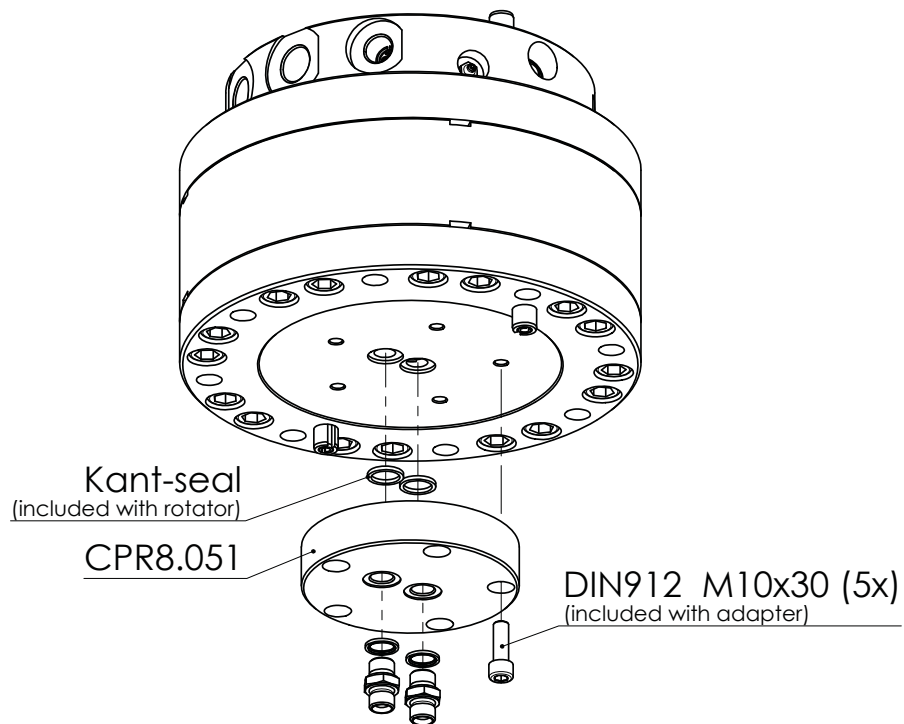
List of parts included				
Pos.	Part	Title	Quantity	Notes
1	CPR8.030	Adapter	1	
2	G111.1460	Screw	8	DIN912 M16x150 12.9

2010.02.08. Sheet 1 of 1

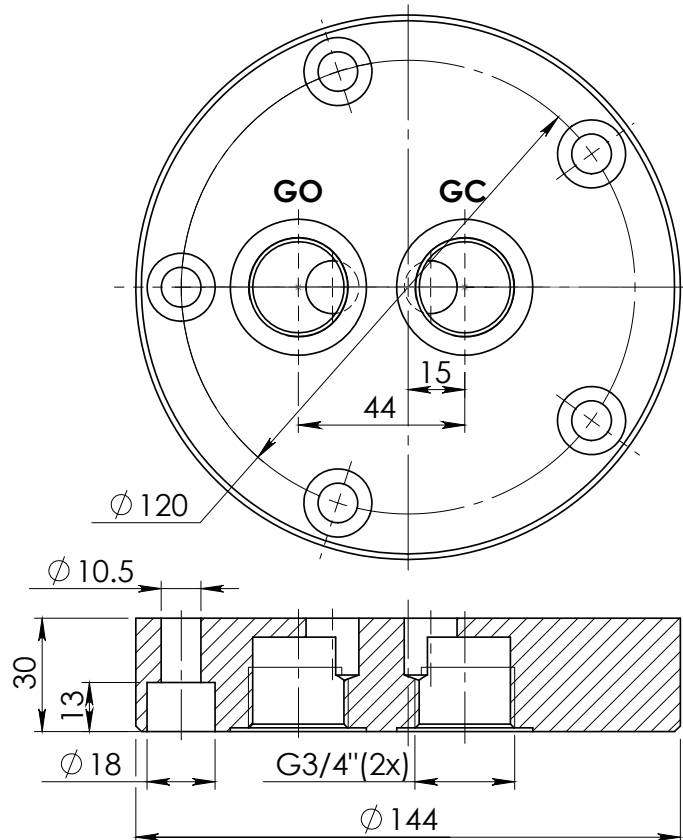
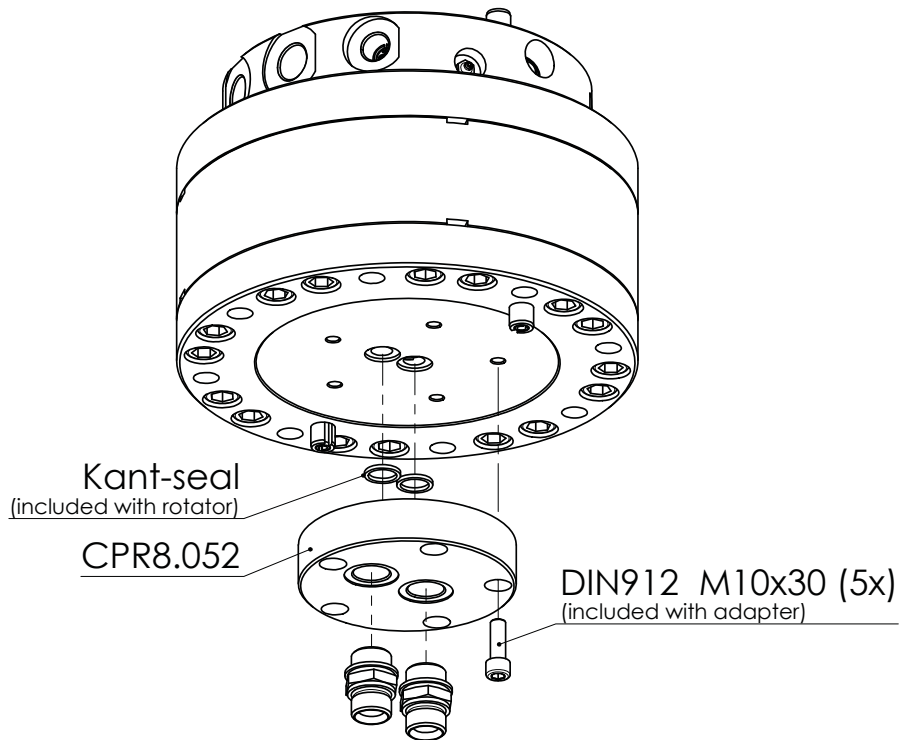
Adapter **CPR8.050** for Industrial rotator **CPR8** series



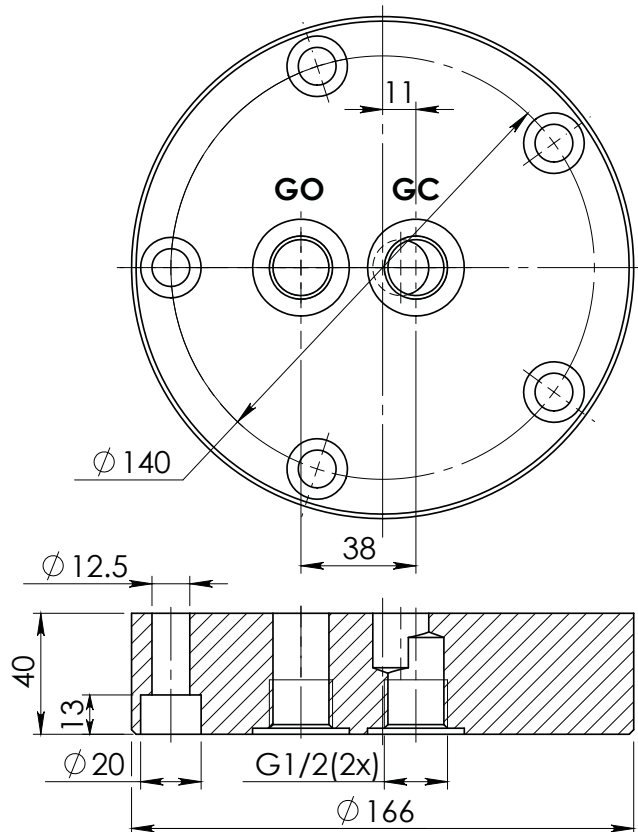
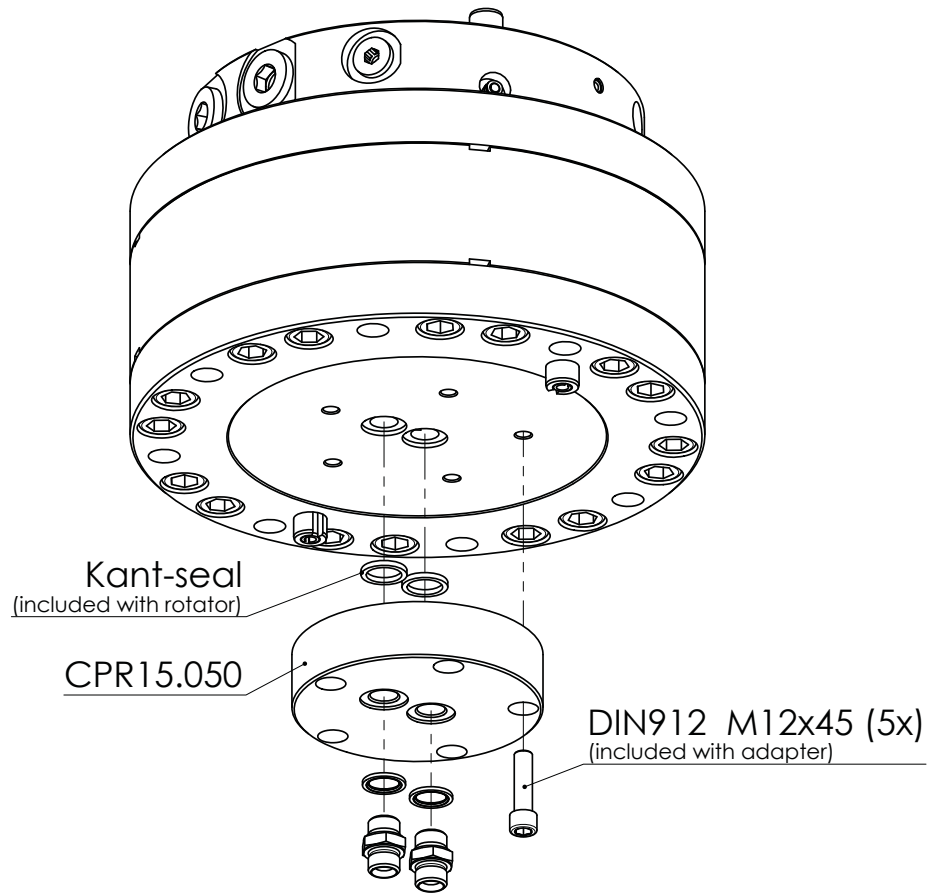
Adapter **CPR8.051** for Industrial rotator **CPR8** series



Adapter **CPR8.052** for Industrial rotator **CPR8** series

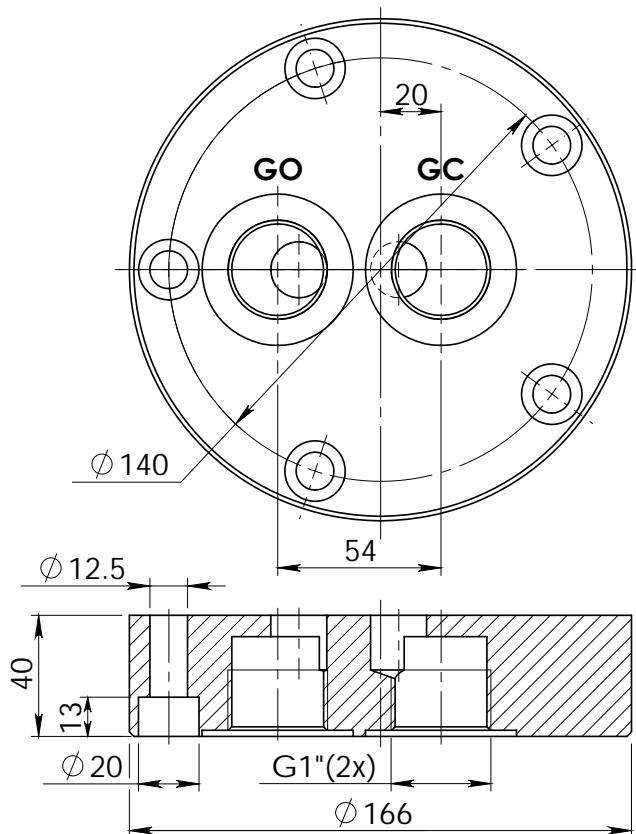
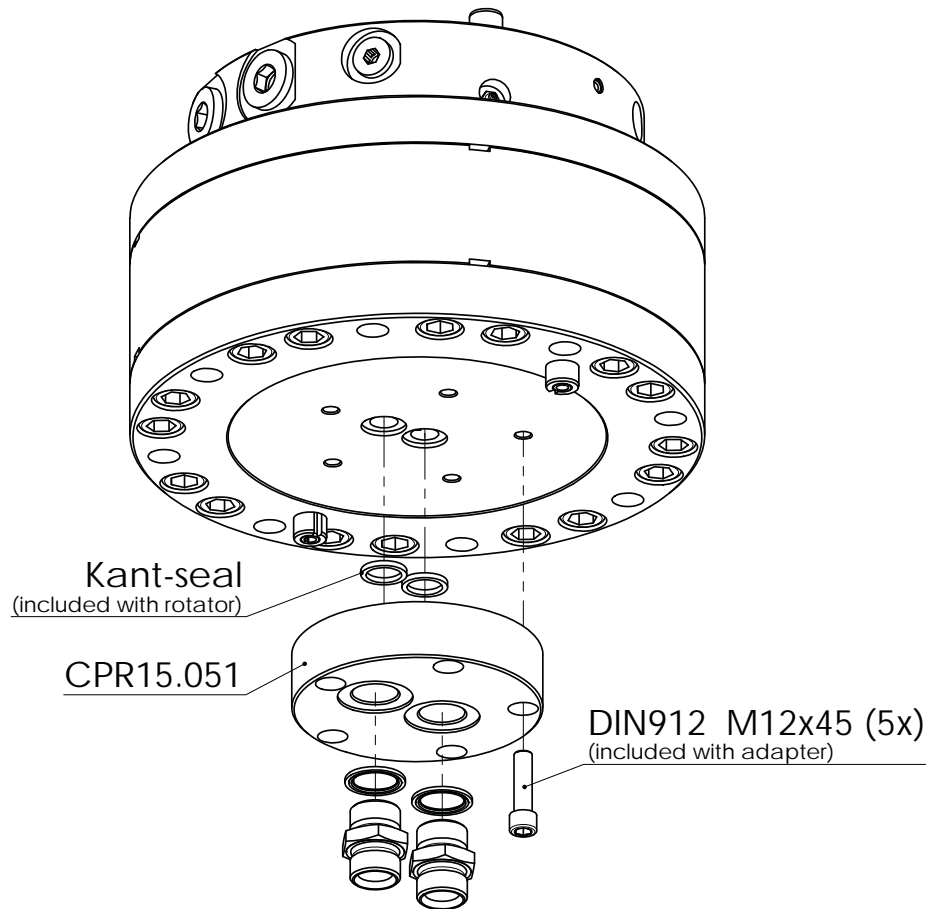


Adapter **CPR15.050** for Industrial rotator **CPR15** series

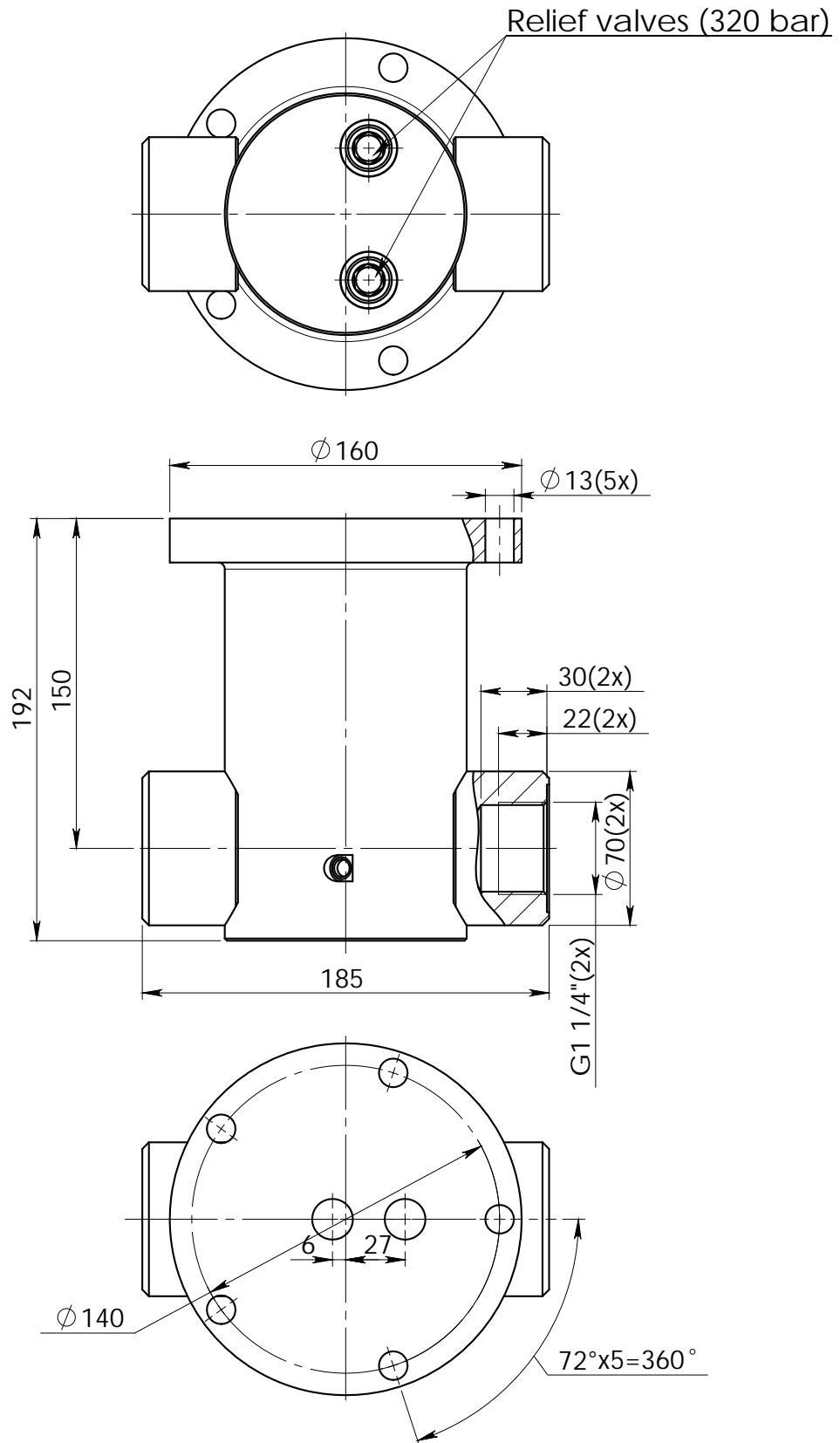


09.05.2012 Sheet 1 of 1

Adapter **CPR15.051** for Industrial rotator **CPR15** series

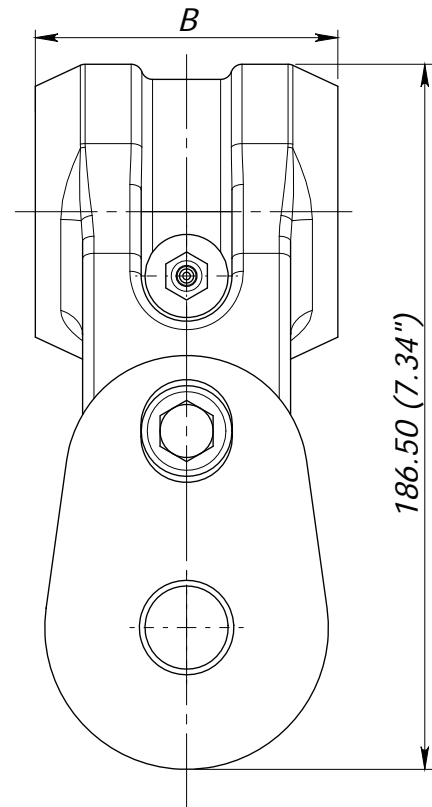
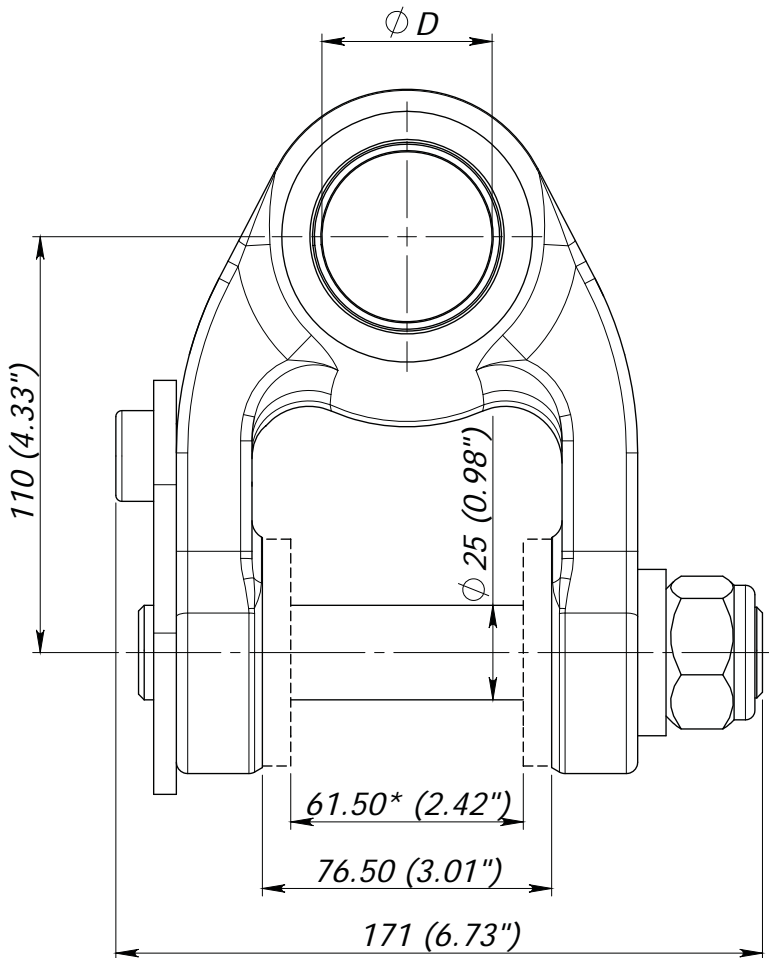


Adapter **CPR15.500** for Industrial rotator **CPR15**



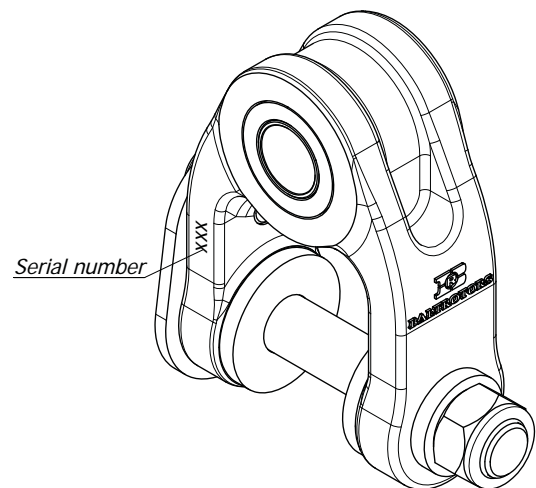
2009.04.27. Sheet 1 of 1

LINK BR 1



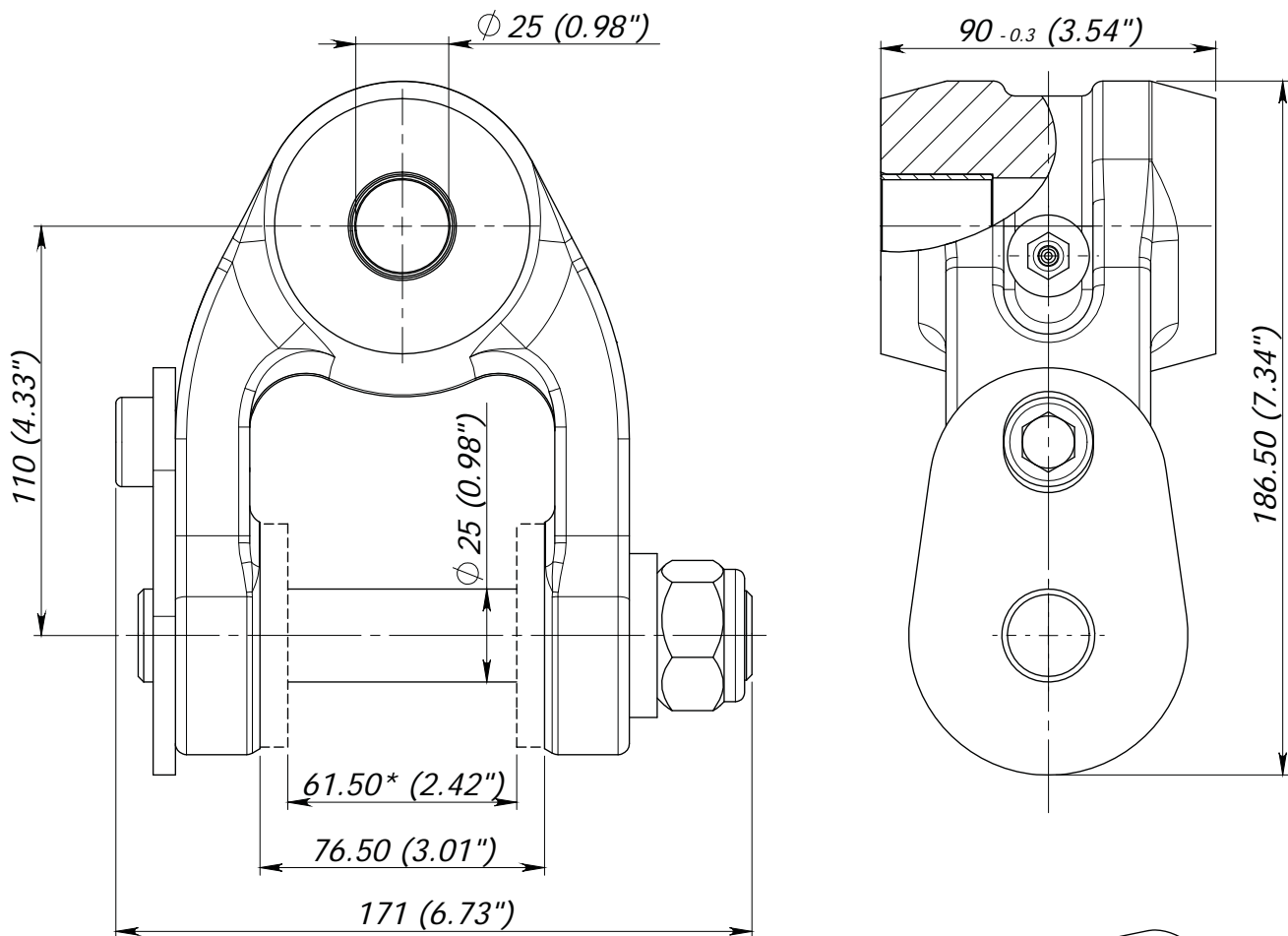
* Only by request for rotator GR 30

Dimensions			
Crane nose pivot pin diameter ϕD (mm)	Link width B (mm)		
	80 ⁰ _{-0.3} (3.15")	70 ⁰ _{-0.3} (2.76")	60 ⁰ _{-0.3} (2.36")
45 (1.77")	BR 1/80/45	BR 1/70/45	BR 1/60/45
40 (1.57")	BR 1/80/40	BR 1/70/40	BR 1/60/40
35 (1.38")	BR 1/80/35	BR 1/70/35	BR 1/60/35
30 (1.18")	BR 1/80/30	BR 1/70/30	BR 1/60/30
25 (0.98")	BR 1/80/25	BR 1/70/25	BR 1/60/25
20 (0.79")	BR 1/80/20	BR 1/70/20	BR 1/60/20

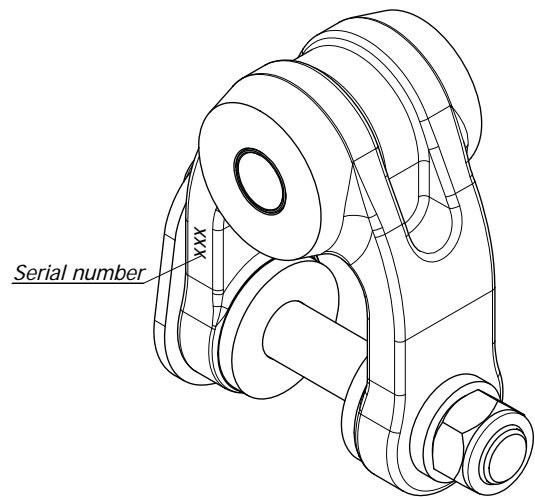


- Pin locking nut is tightened with a torque of 120 Nm (89 lb ft)
- Weight - 5.5 ± 1 kg (12.12 ± 2.20 lb)
- Fill grease Starplex EP 2, through lubricating nipple (pos. 9), until it will appear to the external surfaces. Greasing must be repeated after every 8 working hours of the link.

LINK BR 1/90/25

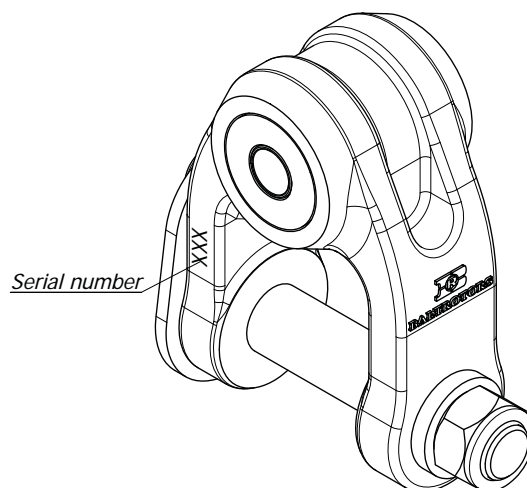
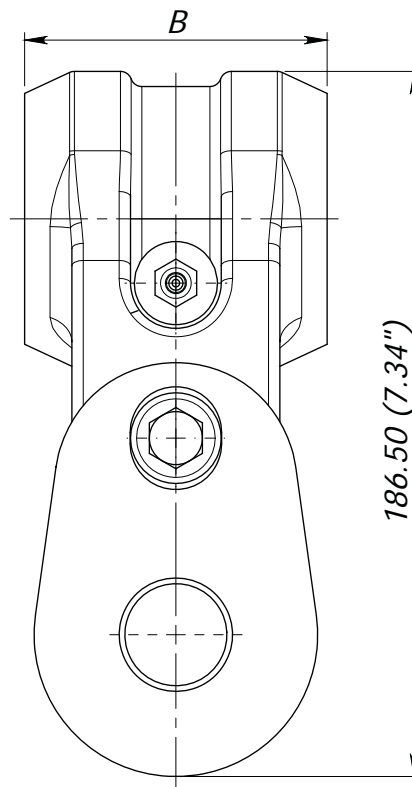
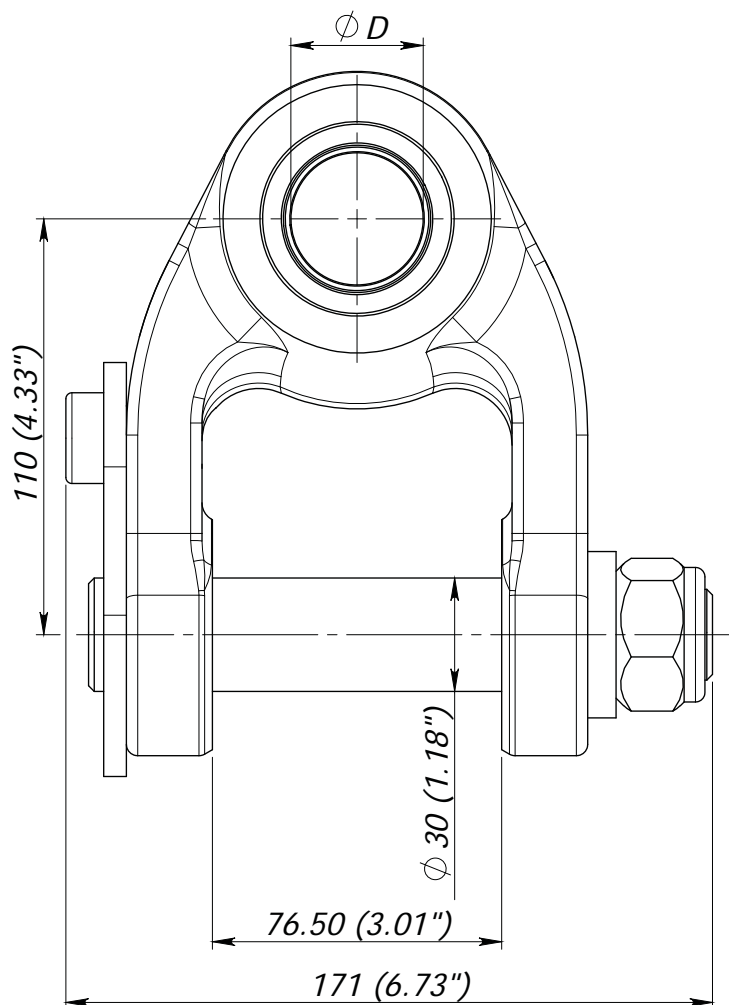


*** Only by request for rotator GR 30**



- Pin locking nut is tightened with a torque of 120 Nm (89 lb ft)
- Weight - 5.5±1 kg (12.12±2.20 lb)
- Fill grease Starplex EP 2, through lubricating nipple (pos. 9), until it will appear to the external surfaces. Greasing must be repeated after every 8 working hours of the link.

LINK BR 1-A

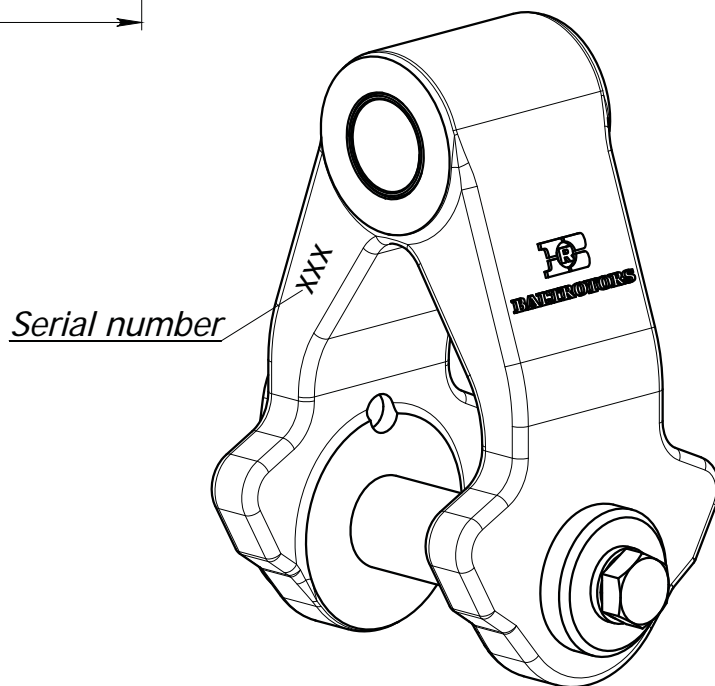
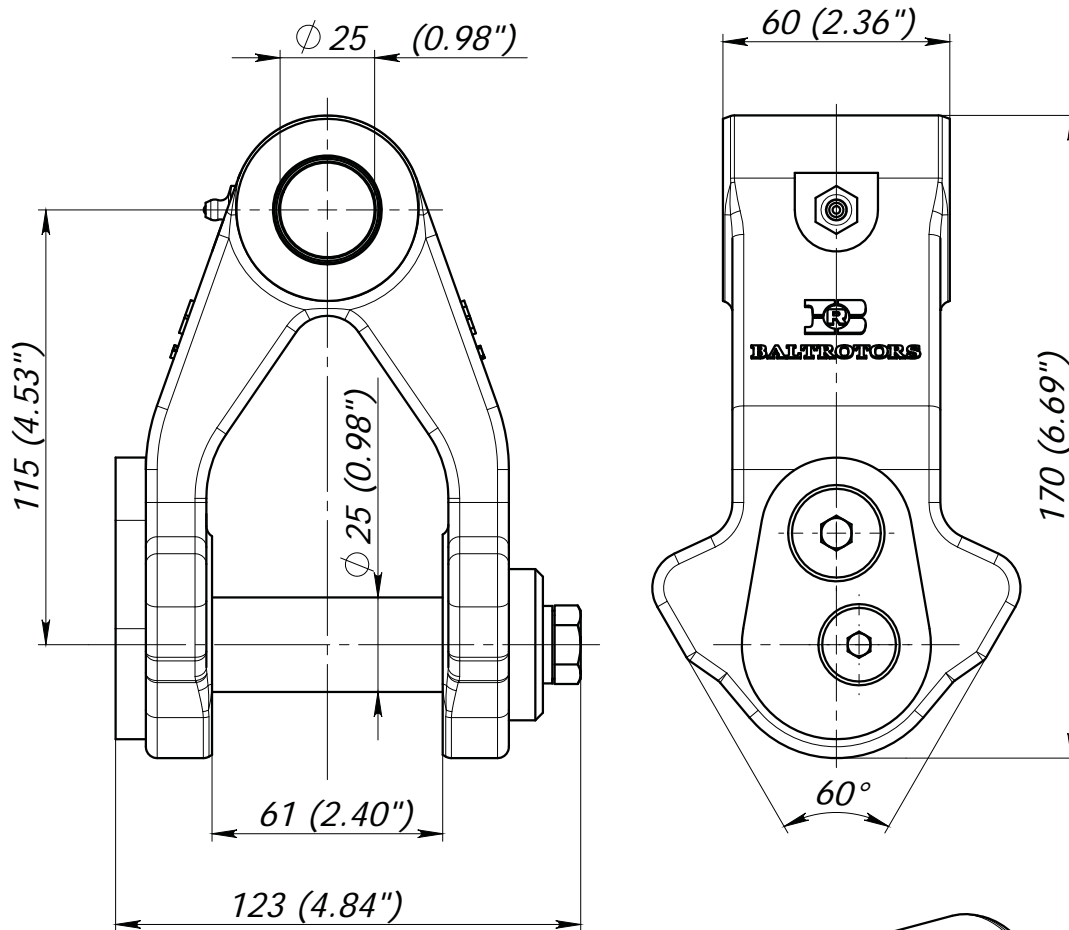


Dimensions

Crane nose pivot pin diameter ϕD (mm)	Link width B (mm)		
	$80_{-0.3}^0$ (3.15")	$70_{-0.3}^0$ (2.76")	$60_{-0.3}^0$ (2.36")
45 (1.77")	BR 1-A/80/45	BR 1-A/70/45	BR 1-A/60/45
40 (1.57")	BR 1-A/80/40	BR 1-A/70/40	BR 1-A/60/40
35 (1.38")	BR 1-A/80/35	BR 1-A/70/35	BR 1-A/60/35
30 (1.18")	BR 1-A/80/30	BR 1-A/70/30	BR 1-A/60/30
25 (0.98")	BR 1-A/80/25	BR 1-A/70/25	BR 1-A/60/25
20 (0.79")	BR 1-A/80/20	BR 1-A/70/20	BR 1-A/60/20

- Pin locking nut is tightened with a torque of 120 Nm (89 lb ft)
- Weight - 5.5 ± 1 kg (12.12 ± 2.20 lb)
- Fill grease Starplex EP 2, through lubricating nipple (pos. 8), until it will appear to the external surfaces. Greasing must be repeated after every 8 working hours of the link.

LINK BRM 1-60-01

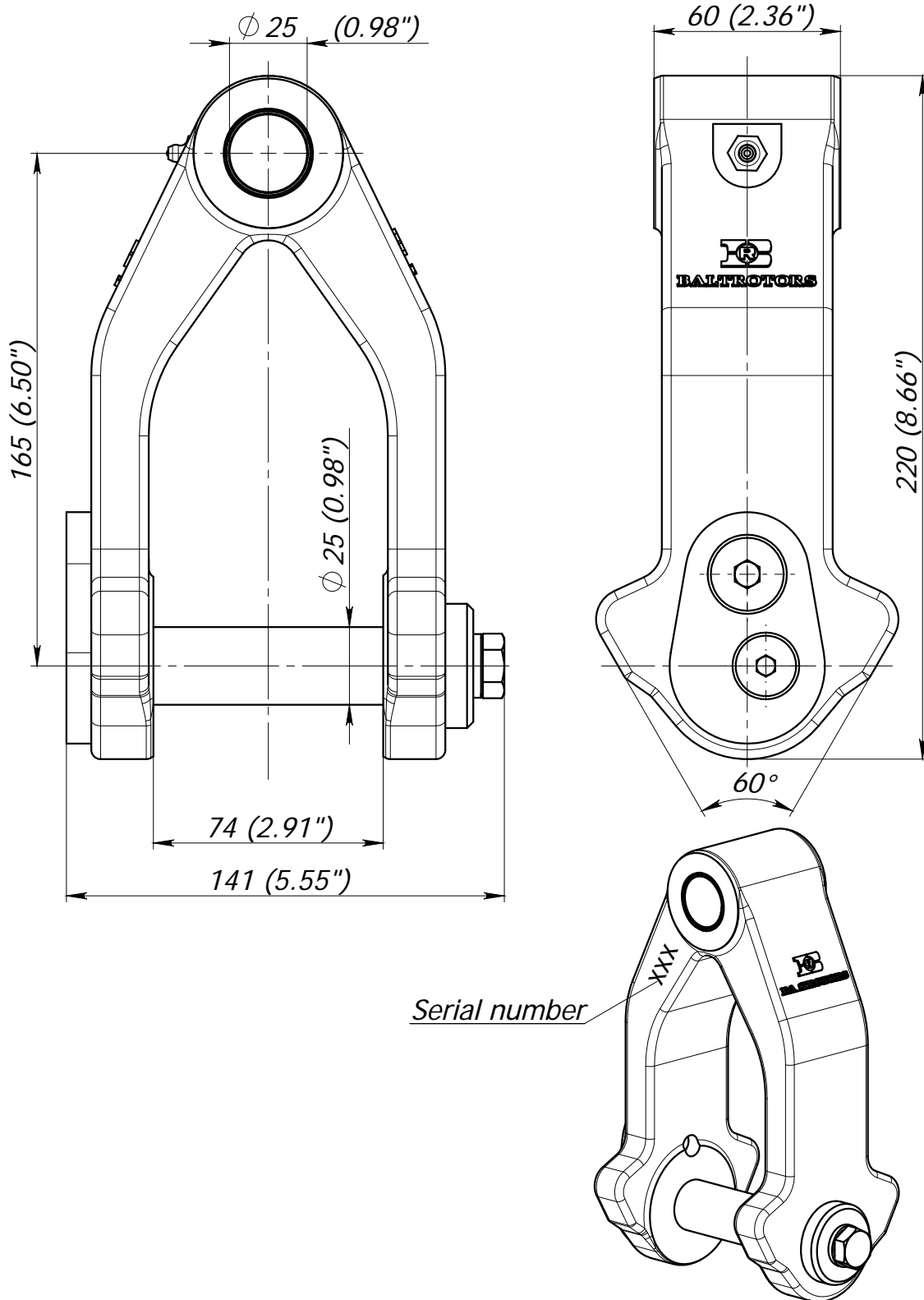


* Weight - 3.73 kg (8.22 lb)

* Fill grease Starplex EP 2, through lubricating nipple (pos. 10), until it will appear to the external surfaces. Greasing must be repeated after every 8 working hours of the link.

2008.11.25. Sheet 1 of 2

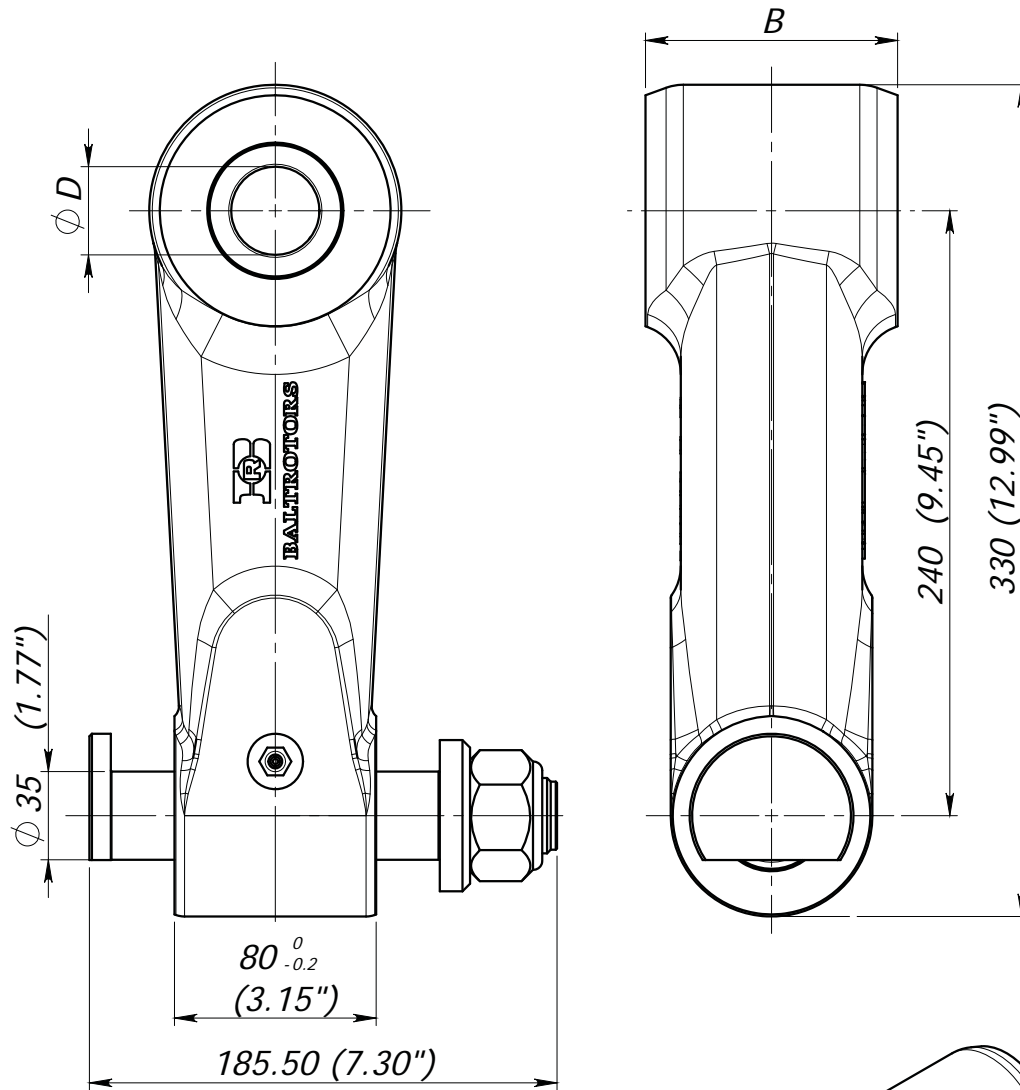
LINK BRM 1-73-01



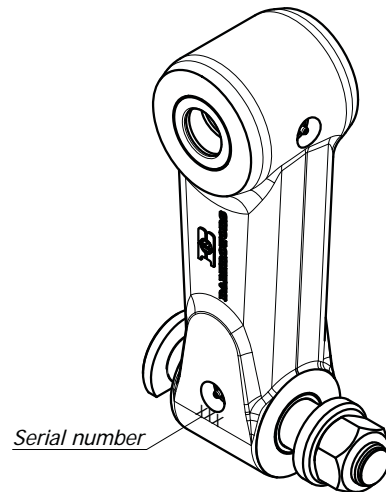
* Weight - 5.12 kg (11.29 lb)

* Fill grease Starplex EP 2, through lubricating nipple (pos. 10), until it will appear to the external surfaces. Greasing must be repeated after every 8 working hours of the link.

LINK BR 2



Dimensions		
Crane nose pivot pin diameter ϕD (mm)	Link width B (mm)	
		$80^{0}_{-0.2}$ (3.15")
45 (1.77")	BR 2/45	BR 2-100/45
40 (1.57")	BR 2/40	BR 2-100/40
35 (1.38")	BR 2/35	BR 2-100/35
30 (1.18")	BR 2/30	-

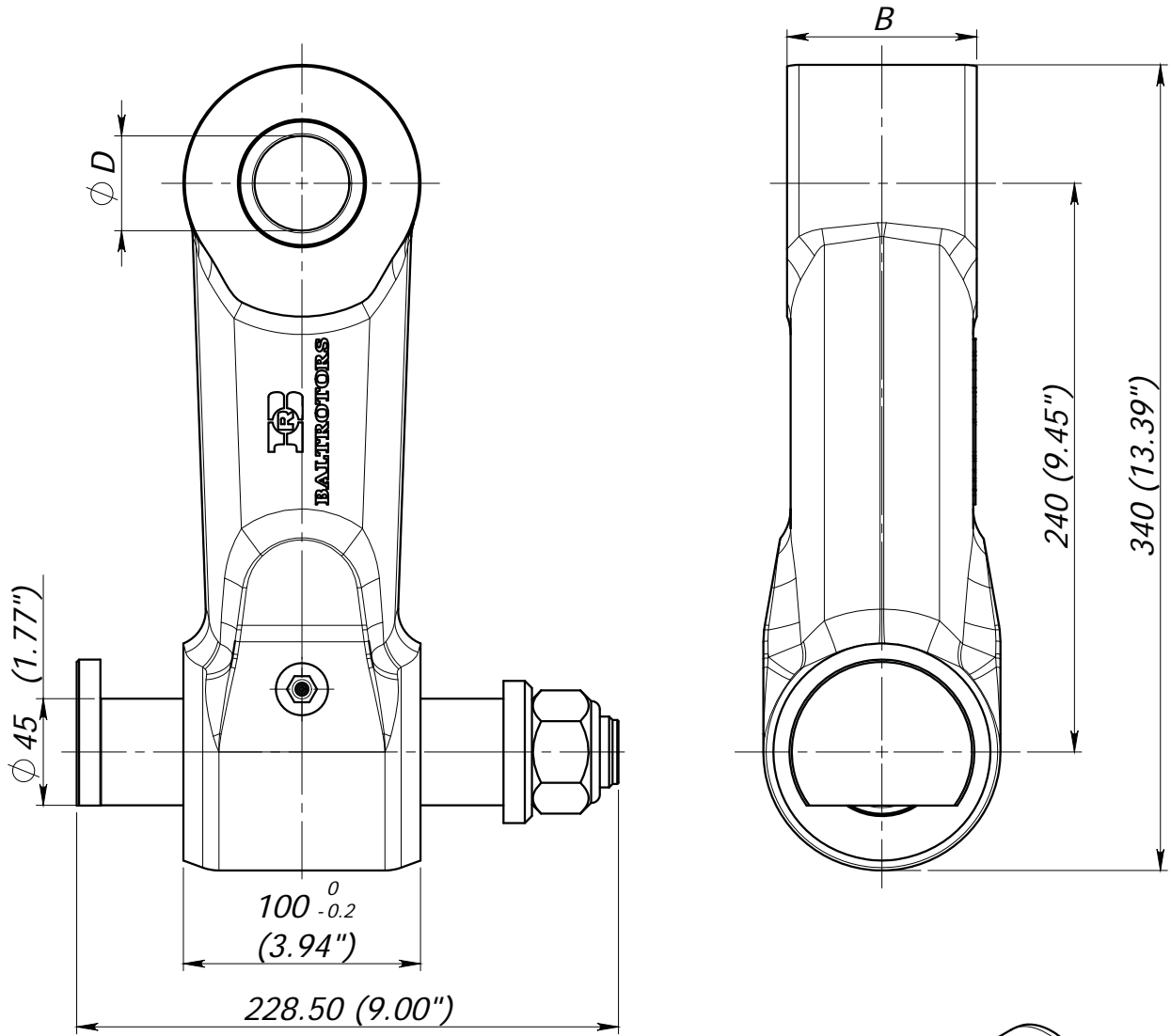


* Pin locking nut is tightened with a torque of 120 Nm (89 lb ft)

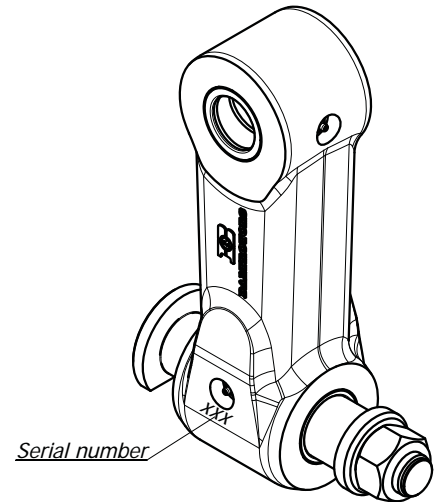
* Weight - 16.5 ± 1 kg (36.37 ± 2.20 lb)

* Fill grease Starplex EP 2, through lubricating nipple (pos. 7), until it will appear to the external surfaces. Greasing must be repeated after every 8 working hours of the link.

LINK BR 3

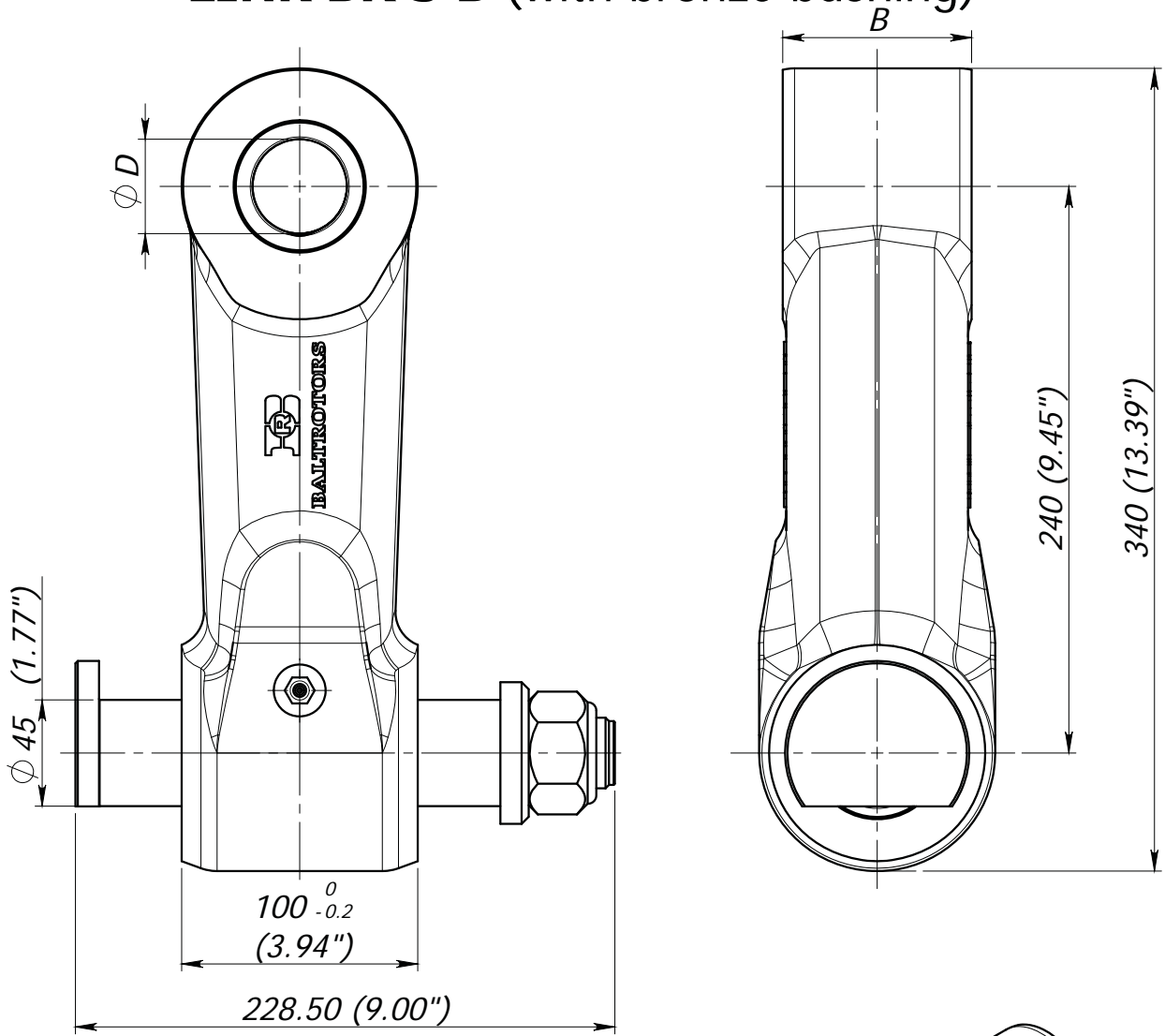


Dimensions		
Crane nose pivot pin diameter ϕD (mm)	Link width B (mm)	
		$80^{0}_{-0.2}$ (3.15")
50 (1.97")	BR 3-80/50	BR 3/50
45 (1.77")	BR 3-80/45	BR 3/45
40 (1.57")	-	BR 3/40
35 (1.38")	-	BR 3/35
30 (1.18")	BR 3-80/30	-

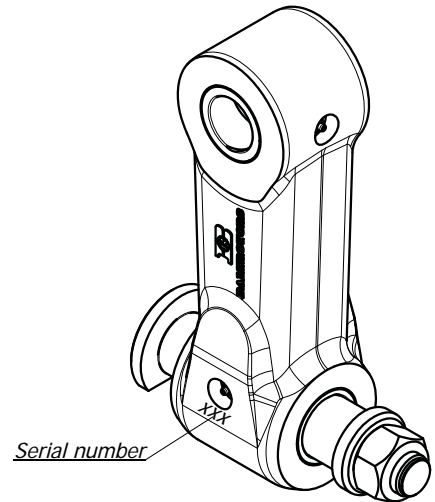


- * Pin locking nut is tightened with a torque of 120 Nm (89 lb ft)
- * Weight - 20.5 ± 1 kg (44.09 \pm 2.20 lb)
- * Fill grease Starplex EP 2, through lubricating nipple (pos. 7), until it will appear to the external surfaces. Greasing must be repeated after every 8 working hours of the link.

LINK BR 3 B (with bronze bushing)



Dimensions		
Crane nose pivot pin diameter ϕD (mm)	Link width B (mm)	
		$80^{0}_{-0.2}$ (3.15")
45 (1.77")	BR 3-80 B/45	BR 3 B/45
40 (1.57")	BR 3-80 B/40	BR 3 B/40

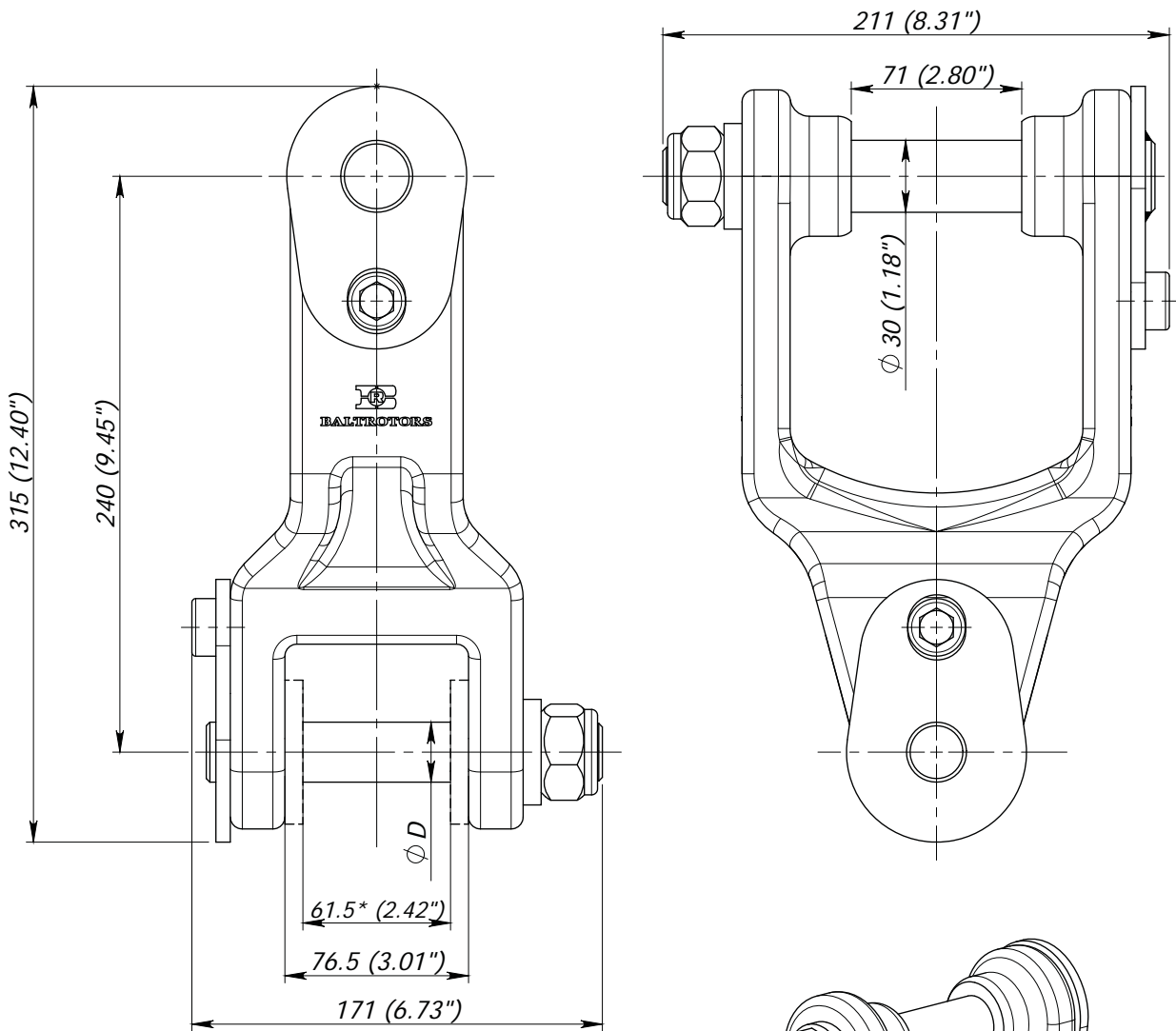


* Pin locking nut is tightened with a torque of 120 Nm (89 lb ft)

* Weight - 20.5 ± 1 kg (44.09 ± 2.20 lb)

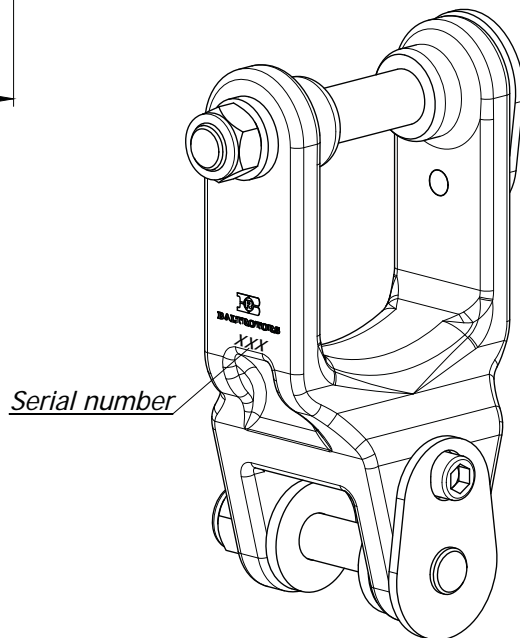
* Fill grease Starplex EP 2, through lubricating nipple (pos. 7), until it will appear to the external surfaces. Greasing must be repeated after every 8 working hours of the link.

LINK BR 4



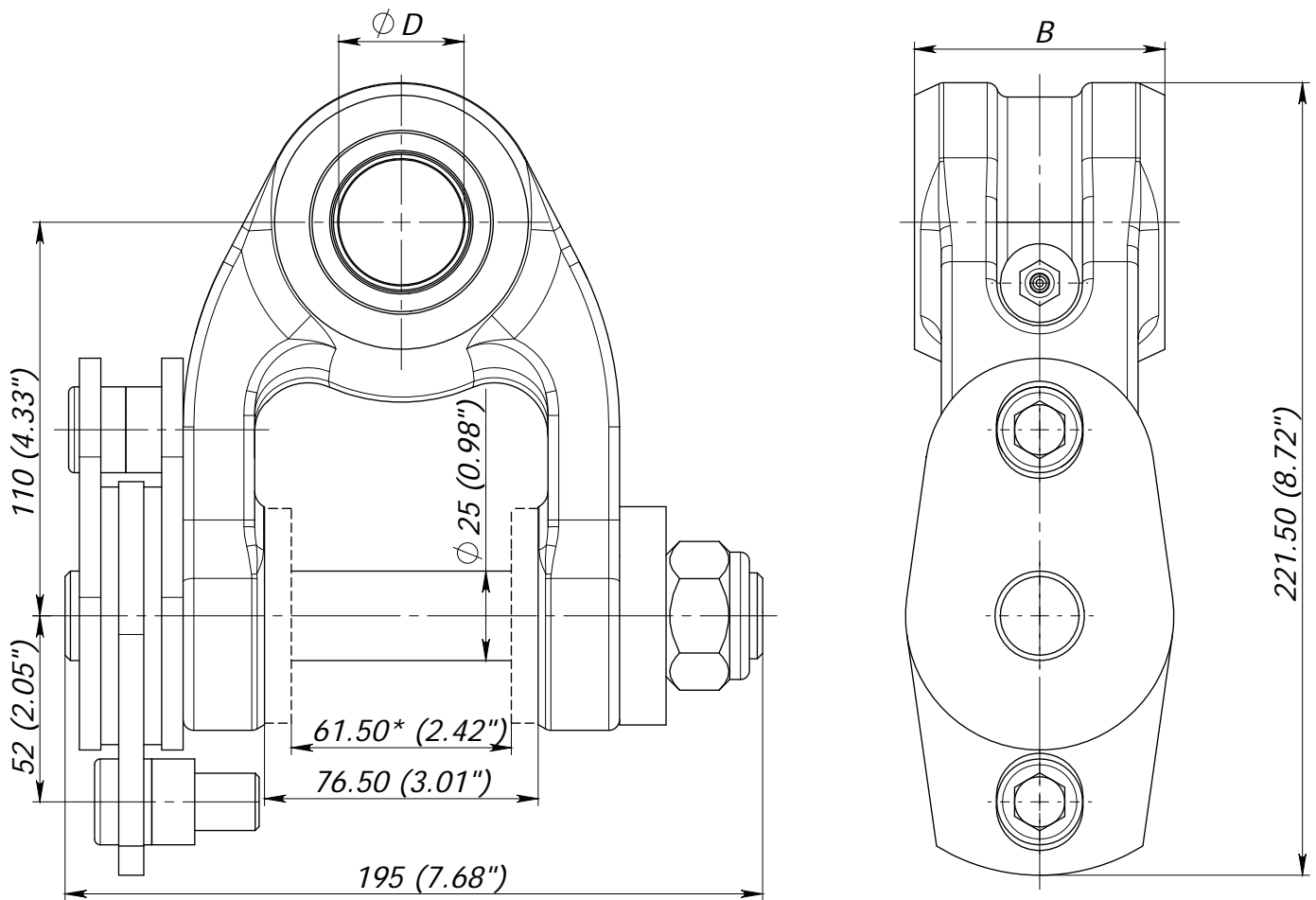
*** Only by request for rotator GR 30**

Link	Pin diameter D (mm)
BR 4	25 (0.98")
BR 4-A	30 (1.18")



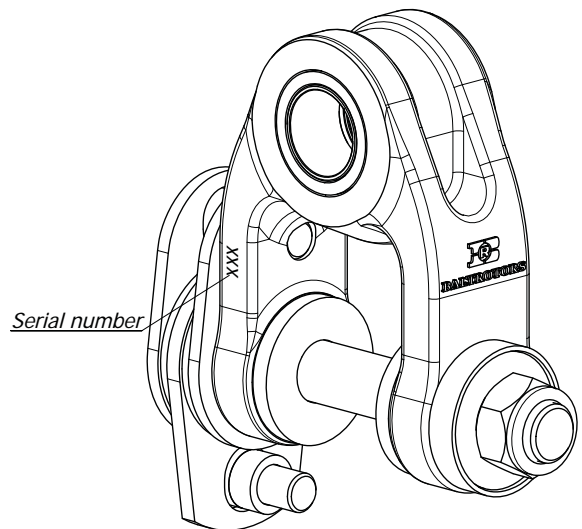
- Pin locking nut is tightened with a torque of 120 Nm (89 lb ft)
- Weight - 12.5 ± 1 kg (27.56 ± 2.20 lb)

LINK BR 10



*** Only by request for rotator GR 30**

Dimensions			
Crane nose pivot pin diameter $\varnothing D$ (mm)	Link width B (mm)		
	$80_{-0.3}^0$ (3.15")	$70_{-0.3}^0$ (2.76")	$60_{-0.3}^0$ (2.36")
45 (1.77")	BR 10/80/45	BR 10/70/45	BR 10/60/45
40 (1.57")	BR 10/80/40	BR 10/70/40	BR 10/60/40
35 (1.38")	BR 10/80/35	BR 10/70/35	BR 10/60/35
30 (1.18")	BR 10/80/30	BR 10/70/30	BR 10/60/30
25 (0.98")	BR 10/80/25	BR 10/70/25	BR 10/60/25
20 (0.79")	BR 10/80/20	BR 10/70/20	BR 10/60/20

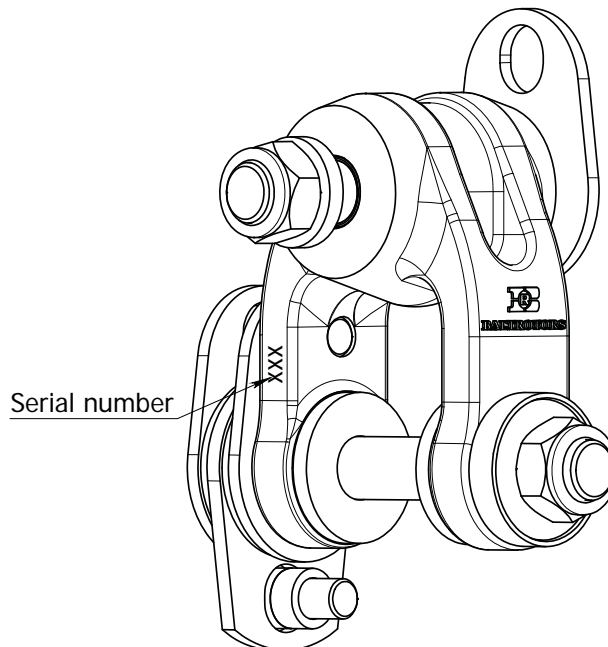
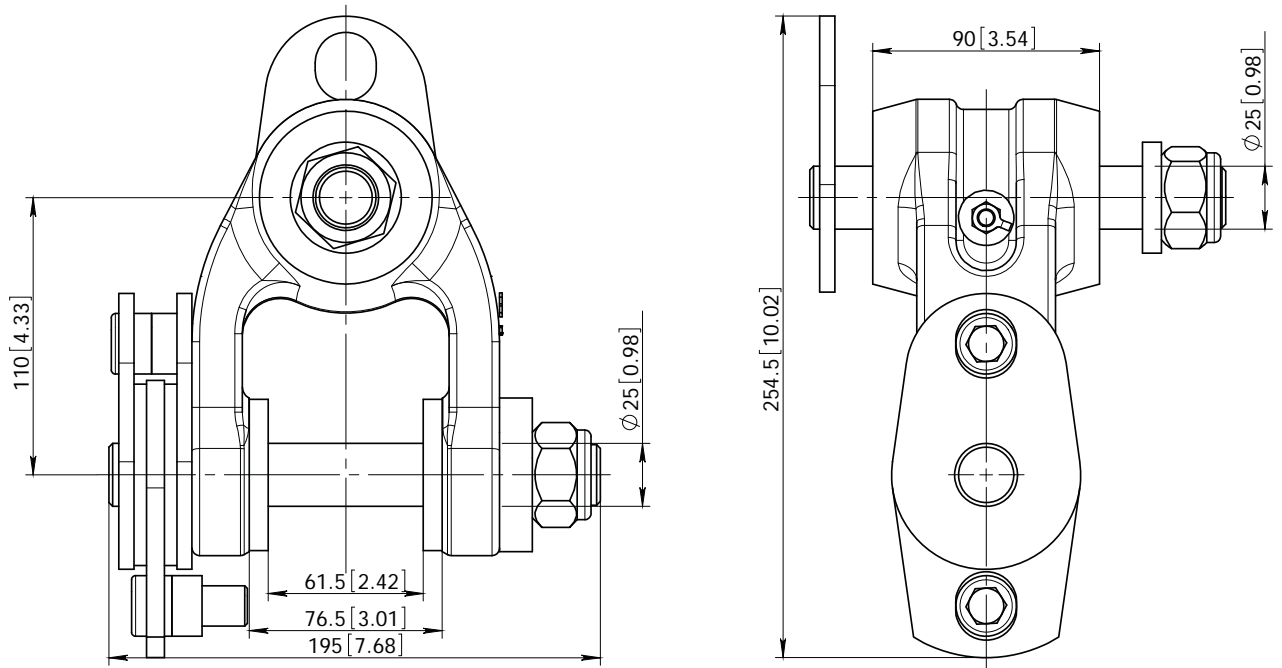


- Pin locking nut is tightened with a torque of 60 - 160 Nm (45 - 120 lb ft) dependent on desired brake power.
- Weight - 6.5 ± 1 kg (14.55 \pm 2.20 lb)
- Fill grease Starplex EP 2, through lubricating nipple (pos. 15), until it will appear to the external surfaces. Greasing must be repeated after every 8 working hours of the link.

Sheet 1 of 3

2007.10.05.

LINK BR 10-90-25-2

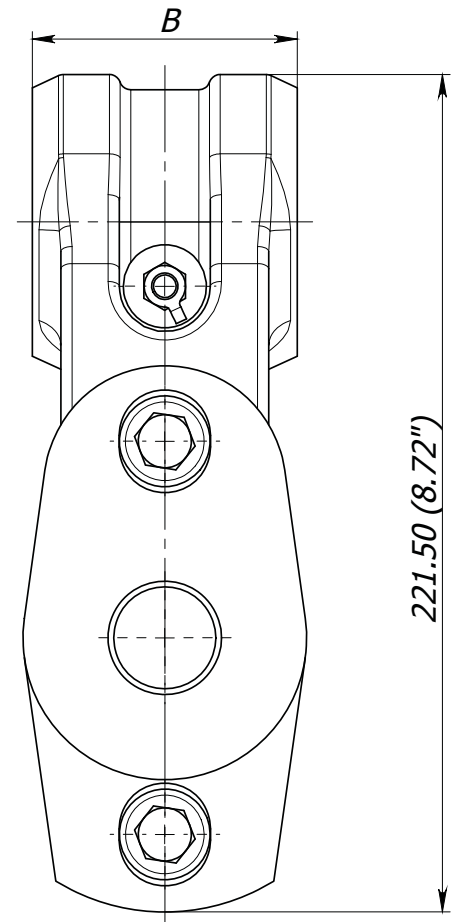
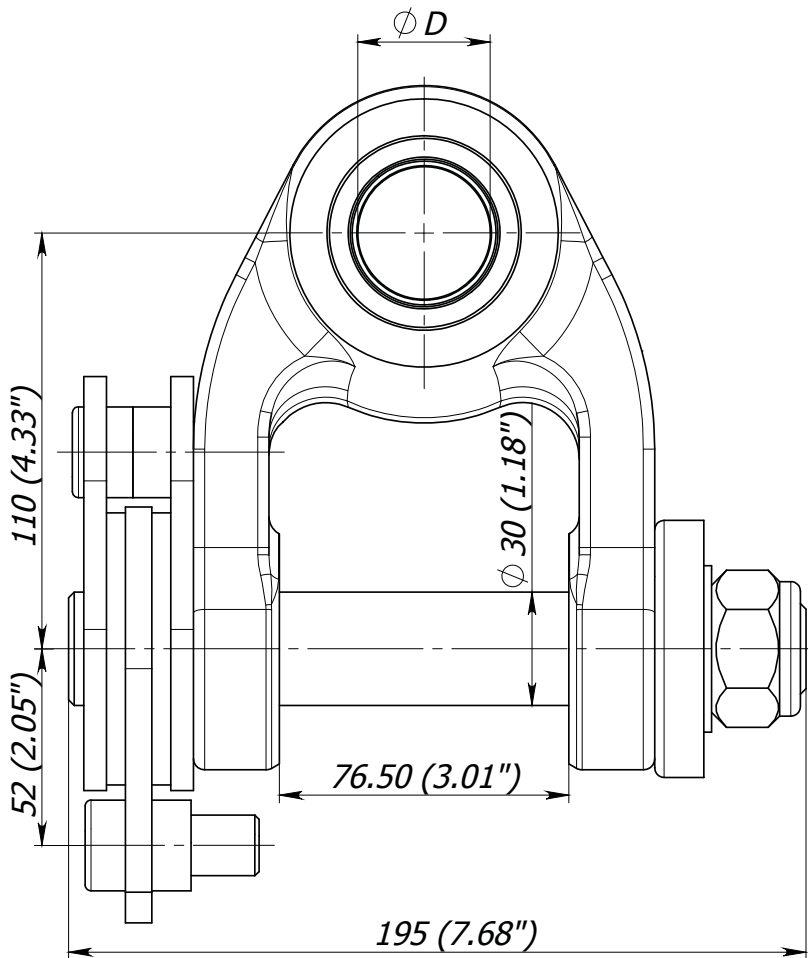


- Pin locking nut is tightened with a torque of 60 - 160 Nm (45 - 120 lb ft) dependent on desired brake power.
- Weight - 8.52±1 kg (18.78±2.20 lb)
- Fill grease Starplex EP 2, through lubricating nipple (pos. 16), until it will appear to the external surfaces. Greasing must be repeated after every 8 working hours of the link.

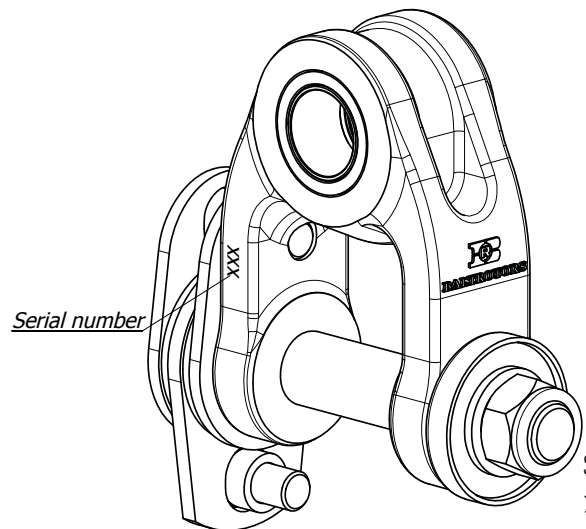
Sheet 1 of 3

2010.02.01.

LINK BR10-A



Dimensions			
Crane nose pivot pin diameter $\varnothing D$ (mm)	Link width B (mm)		
	$80_{-0.3}^0$ (3.15")	$70_{-0.3}^0$ (2.76")	$60_{-0.3}^0$ (2.36")
45 (1.77")	BR10-A-80-45	BR10-A-70-45	BR10-A-60-45
40 (1.57")	BR10-A-80-40	BR10-A-70-40	BR10-A-60-40
35 (1.38")	BR10-A-80-35	BR10-A-70-35	BR10-A-60-35
30 (1.18")	BR10-A-80-30	BR10-A-70-30	BR10-A-60-30
25 (0.98")	BR10-A-80-25	BR10-A-70-25	BR10-A-60-25
20 (0.79")	BR10-A-80-20	BR10-A-70-20	BR10-A-60-20

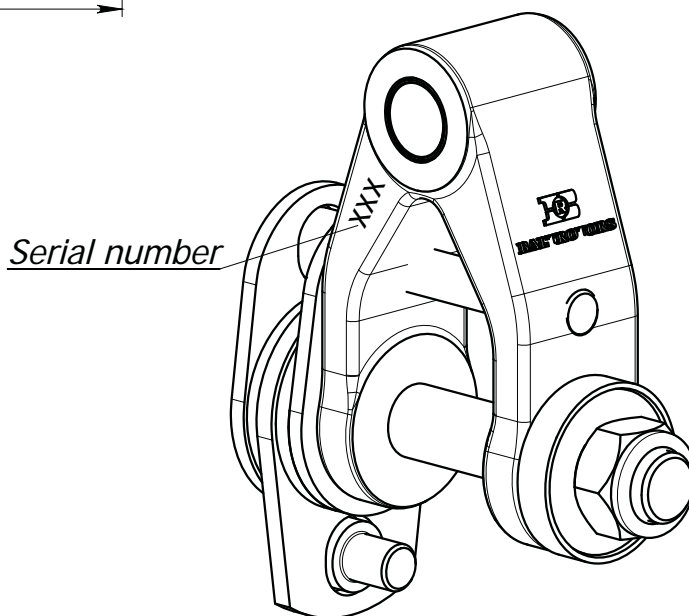
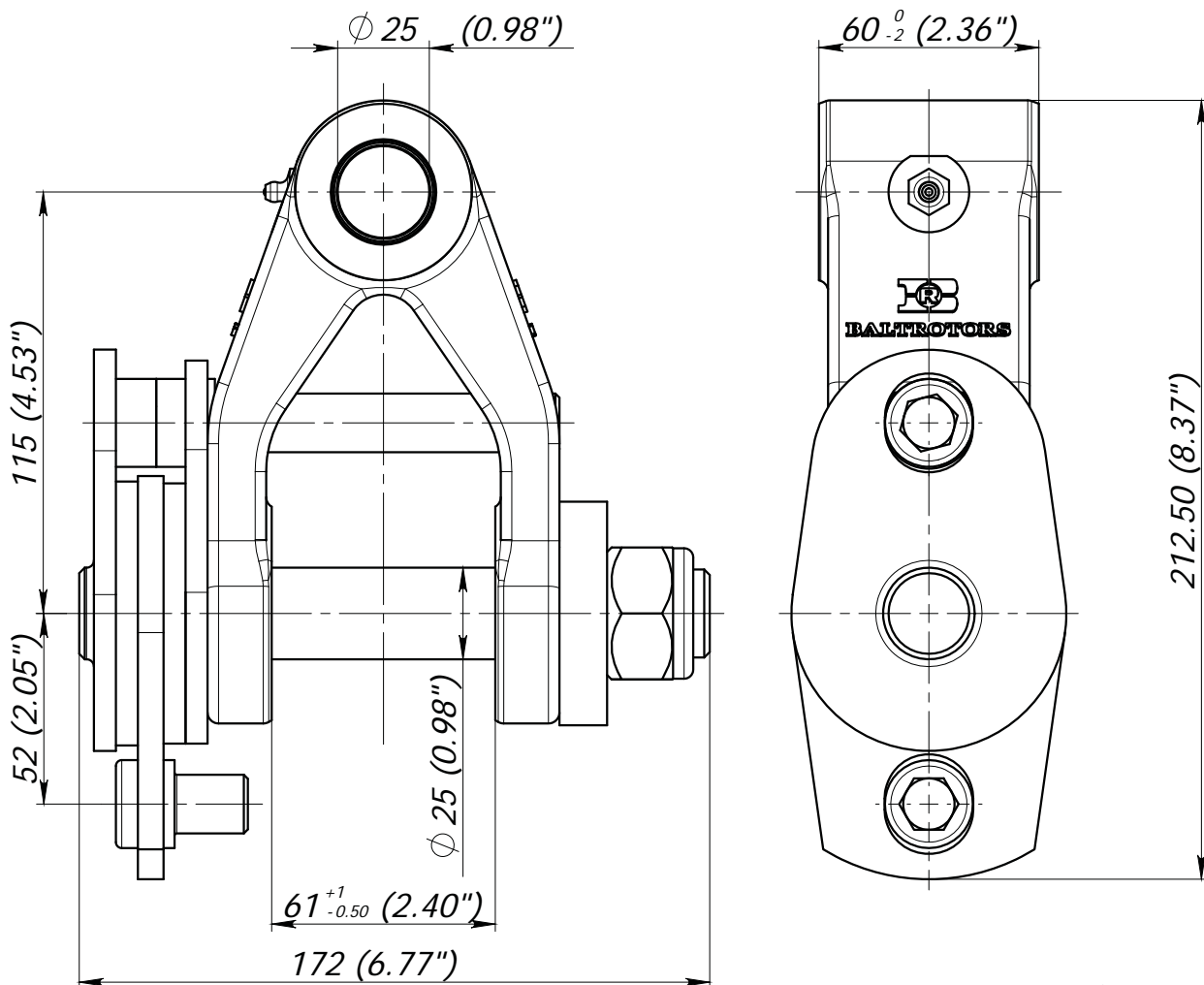


- Pin locking nut is tightened with a torque of 60 - 160 Nm (45 - 120 lb ft) dependent on desired brake power.
- Weight - 6.5 ± 1 kg (14.55 ± 2.20 lb)
- Fill grease Starplex EP 2, through lubricating nipple (pos. 14), until it will appear to the external surfaces. Greasing must be repeated after every 8 working hours of the link.

Sheet 1 of 3

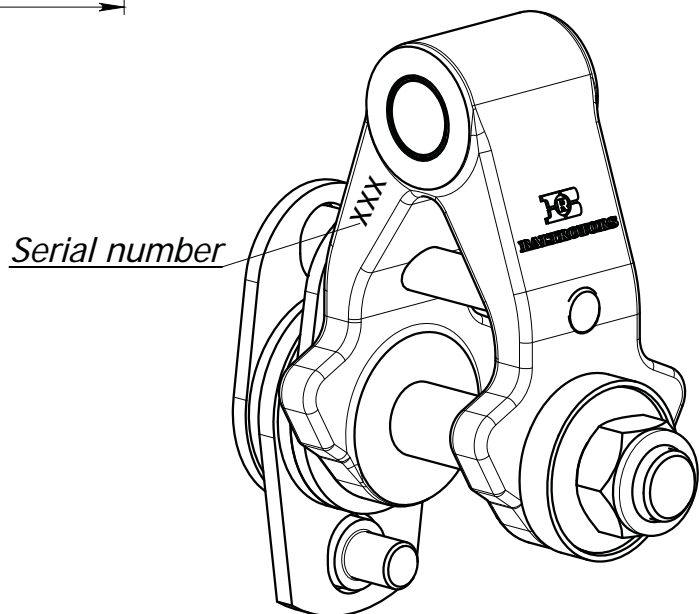
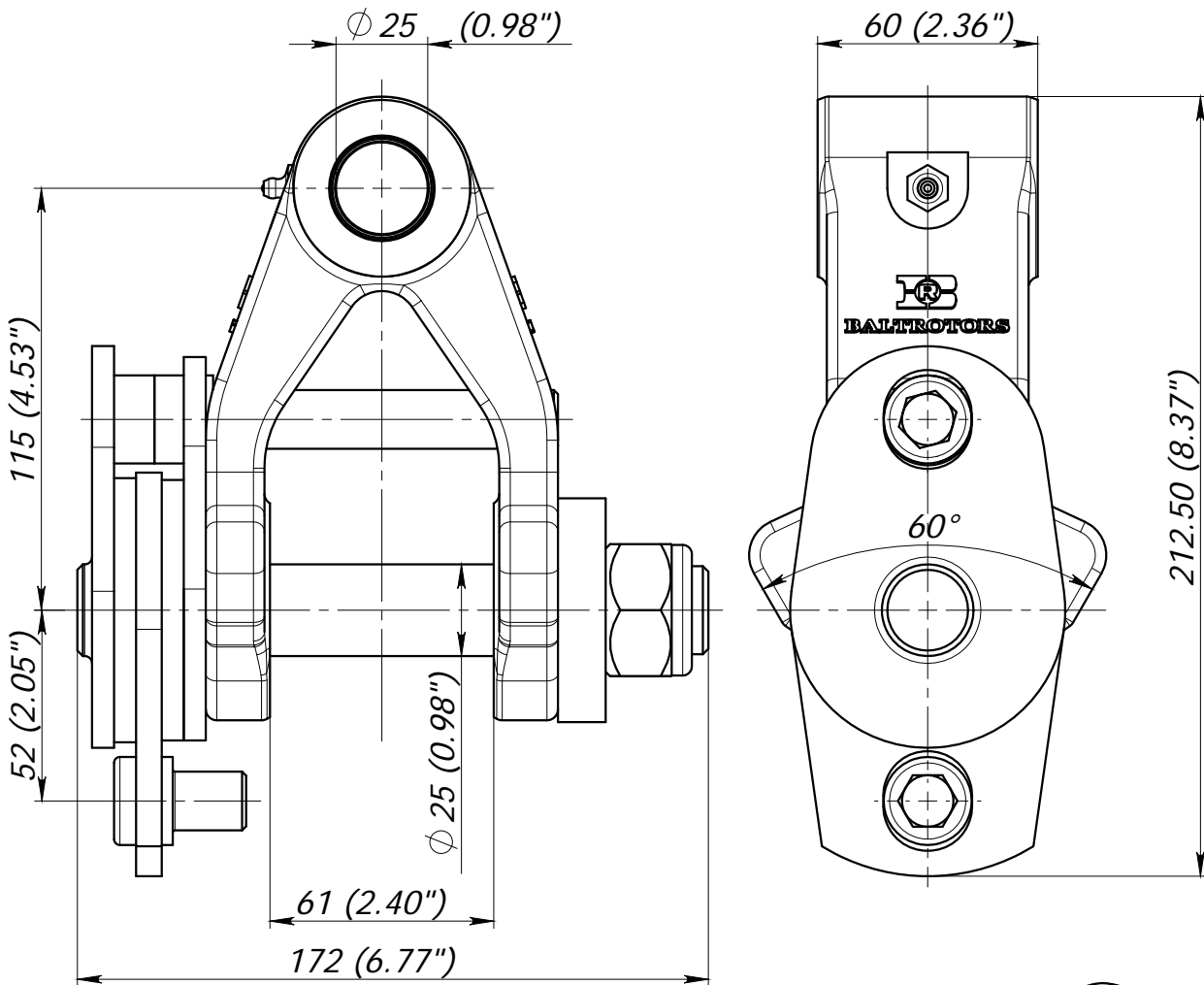
2012.06.26.

LINK BRM 10-60



- * Pin locking nut is tightened with a torque of 60 - 160 Nm (45 - 120 lb ft) dependent on desired brake power.
- * Weight - 4.73 kg (10.42 lb)
- * Fill grease Starplex EP 2, through lubricating nipple (pos. 12), until it will appear to the external surfaces. Greasing must be repeated after every 8 working hours of the link.

LINK BRM 10-60-01

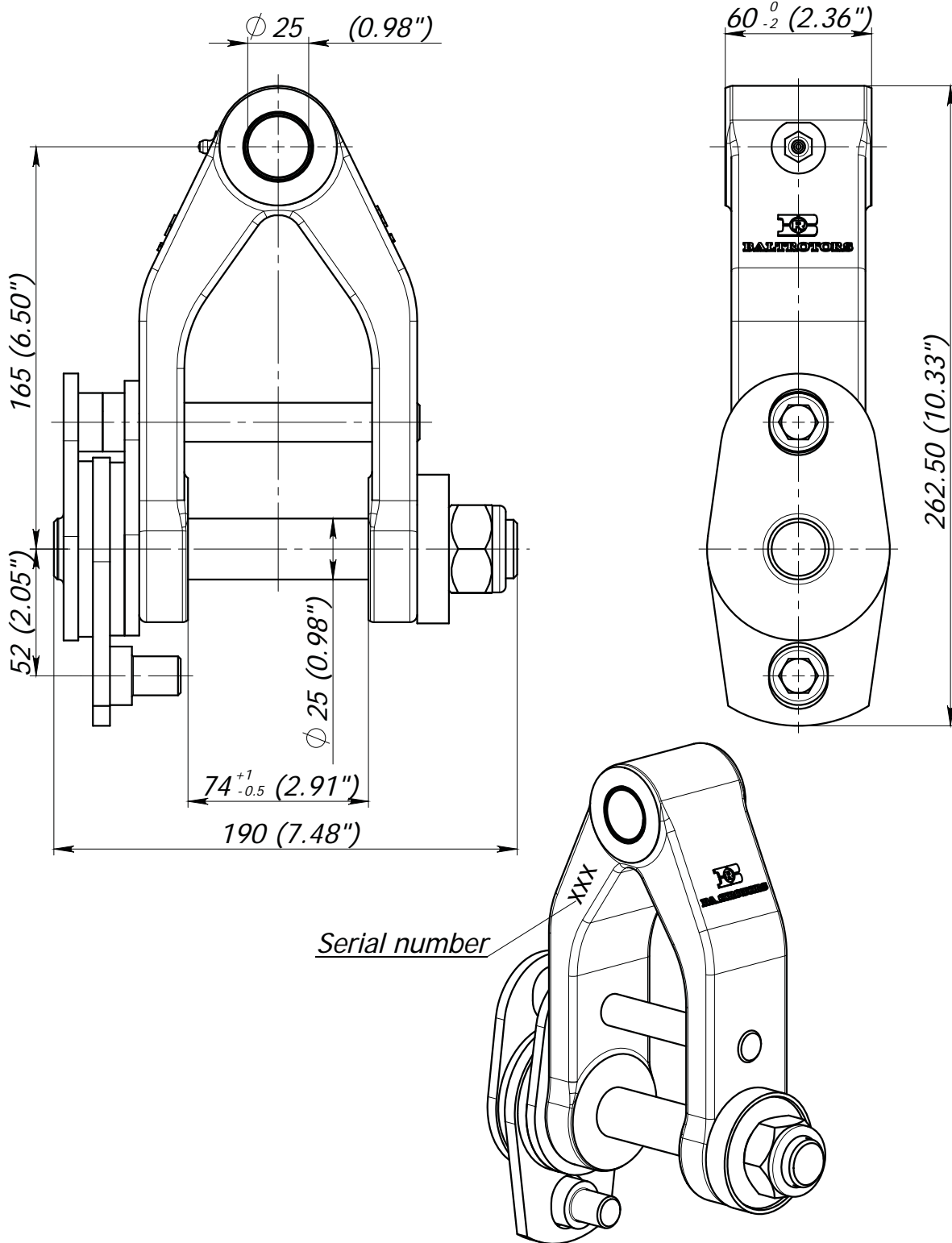


- * Pin locking nut is tightened with a torque of 60 - 160 Nm (45 - 120 lb ft) dependent on desired brake power.
- * Weight - 5 kg (11 lb)
- * Fill grease Starplex EP 2, through lubricating nipple (pos. 12), until it will appear to the external surfaces. Greasing must be repeated after every 8 working hours of the link.

Sheet 1 of 2

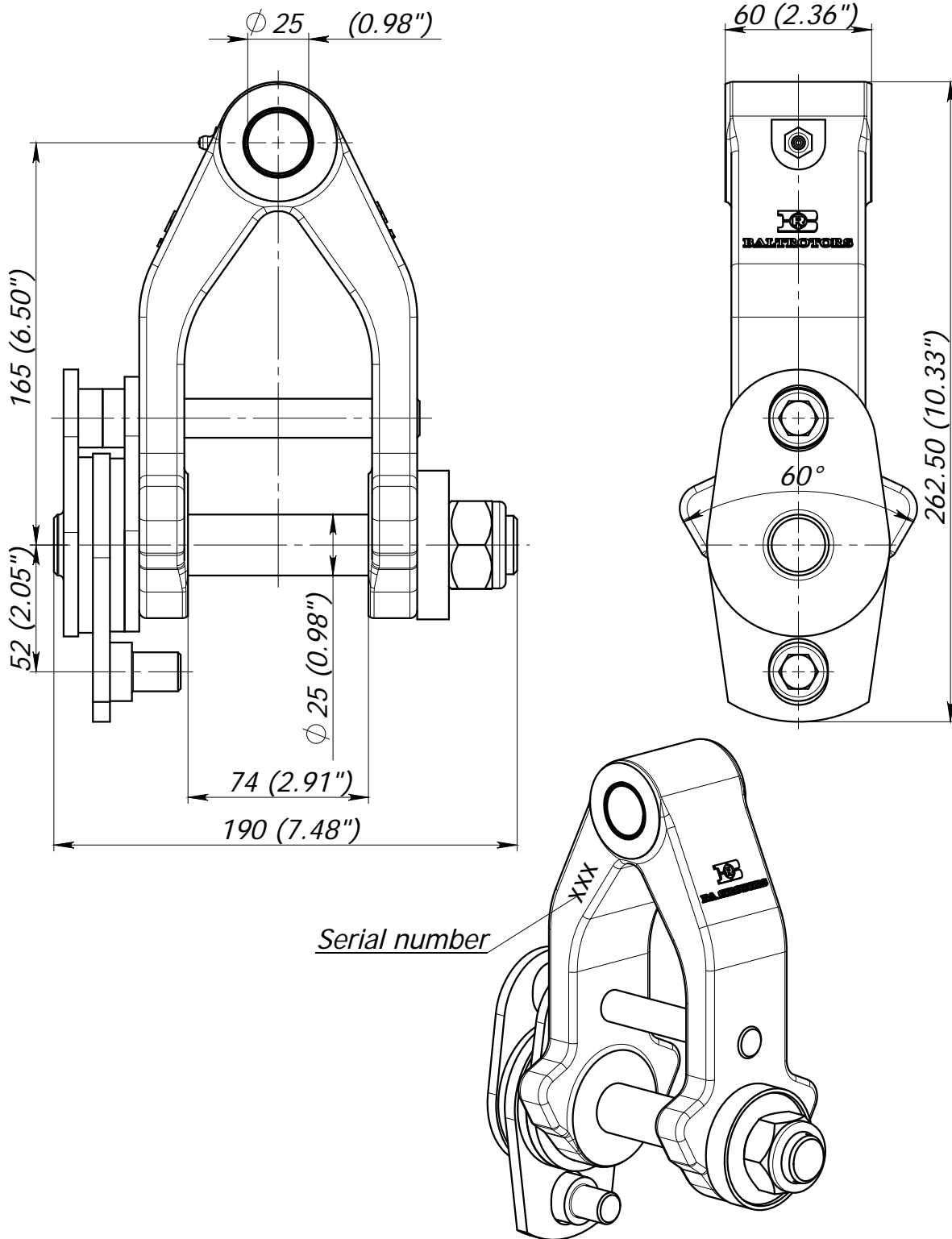
2008.11.26.

LINK BRM 10-73



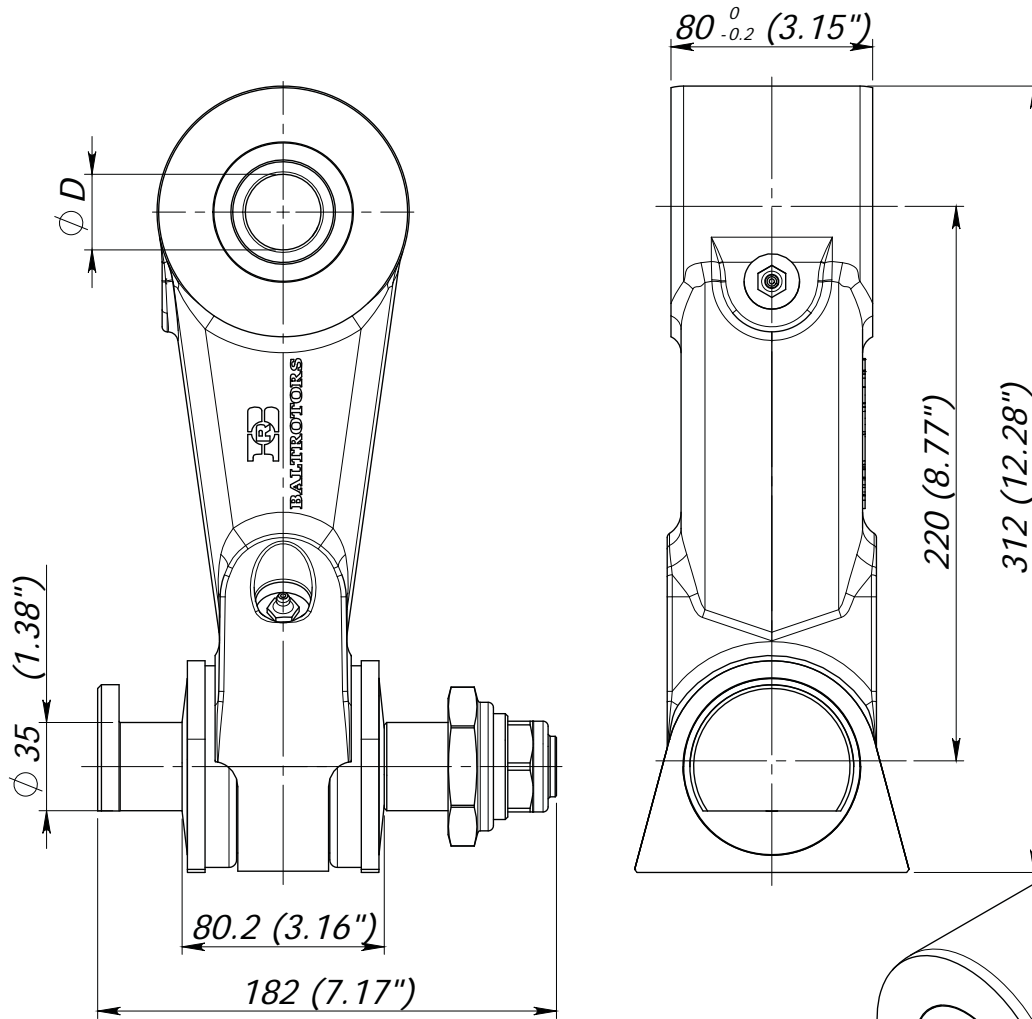
- * Pin locking nut is tightened with a torque of 60 - 160 Nm (45 - 120 lb ft) dependent on desired brake power.
- * Weight - 4.73 kg (10.42 lb)
- * Fill grease Starplex EP 2, through lubricating nipple (pos. 12), until it will appear to the external surfaces. Greasing must be repeated after every 8 working hours of the link.

LINK BRM 10-73-01

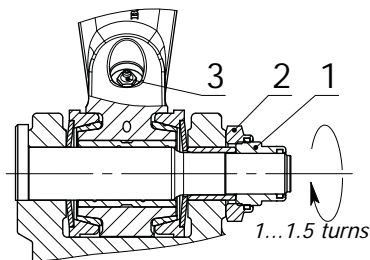


- * Pin locking nut is tightened with a torque of 60 - 160 Nm (45 - 120 lb ft) dependent on desired brake power.
- * Weight - 6.77 kg (15 lb)
- * Fill grease Starplex EP 2, through lubricating nipple (pos. 12), until it will appear to the external surfaces. Greasing must be repeated after every 8 working hours of the link.

Swing damper BR 20 KS



Link	Diameter D (mm)	Weight (kg)
BR 20 KS/45	45 (1.77")	13.65 (30.00 lb)
BR 20 KS/40	40 (1.57")	13.88 (30.60 lb)
BR 20 KS/35	35 (1.38")	13.99 (30.84 lb)
BR 20 KS/30	30 (1.18")	14.14 (31.17 lb)



Instruction manual

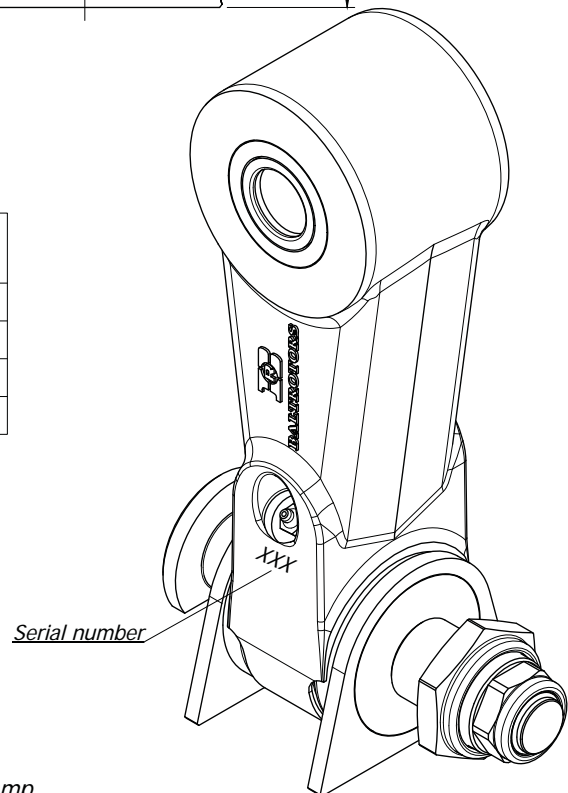
To adjust the brake of the link, following actions have to be done:

- release the lock nut (pos.2)
- twist the adjusting nut (pos.1) until the disc spring starts to clamp
- tighten the adjusting nut (pos.1) at 1...1.5 turns, that will provide braking moment of 200...250 Nm (148...185 lb ft)
- tighten the lock nut (pos.2) with tightening torque 100 Nm (74 lb ft).

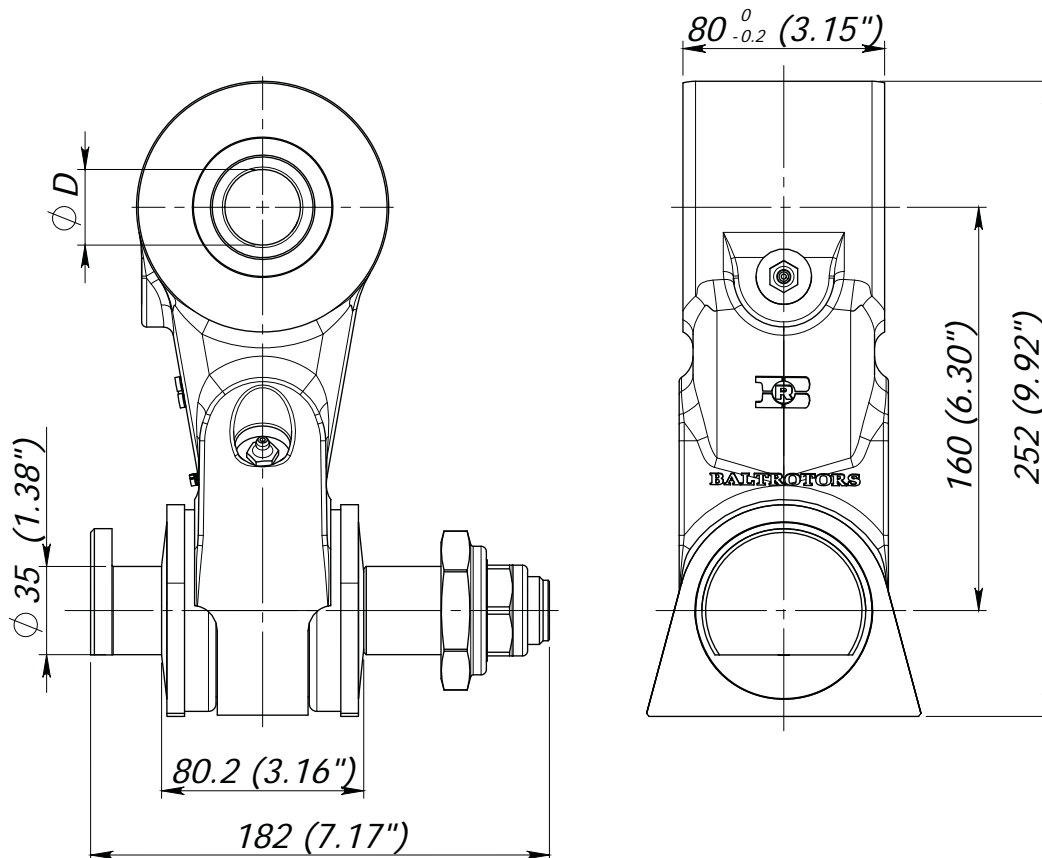
Greasing of lower slide bearing and brake cones is already done through lubricating nipple (pos.3). Fill grease Starplex EP 2 until it will appear to the external surfaces.

Greasing must be repeated after every 8 working hours of the link.

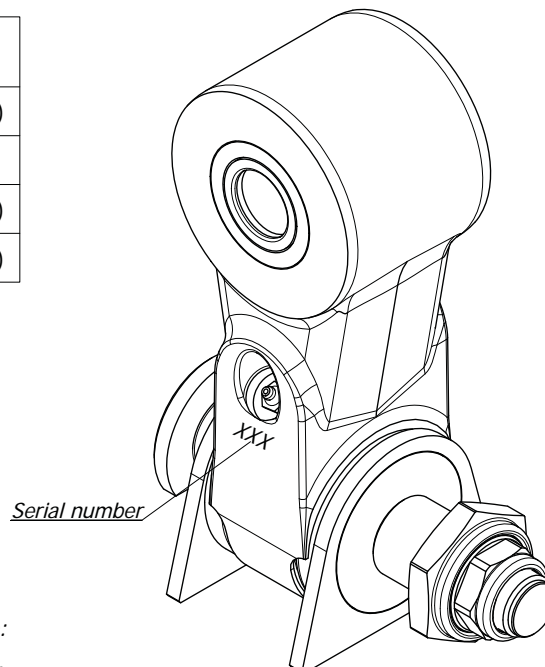
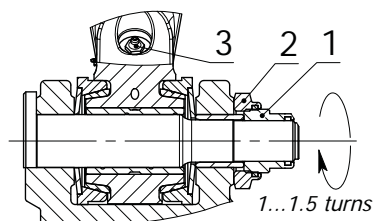
NOTICE! The link is delivered ungreased. It should be well greased before taking into exploitation.



Swing damper BR 20 KSC



Link	Diameter D (mm)	Weight (kg)
BR 20 KSC/45	45 (1.77")	11.16 (24.60 lb)
BR 20 KSC/40	40 (1.57")	11.39 (25.11 lb)
BR 20 KSC/35	35 (1.38")	11.50 (25.35 lb)
BR 20 KSC/30	30 (1.18")	11.65 (25.68 lb)



Instruction manual

To adjust the brake of the link, following actions have to be done:

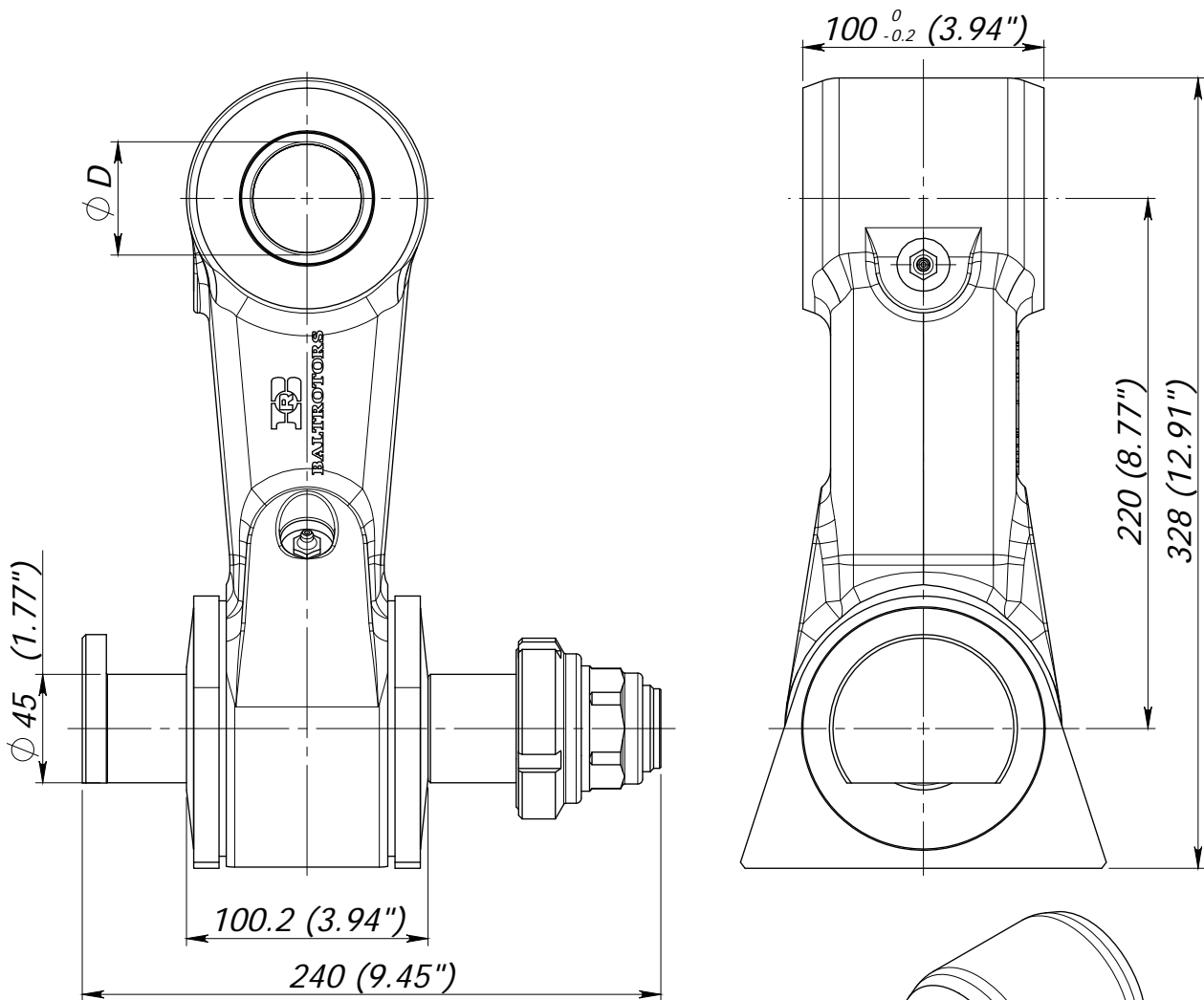
- release the lock nut (pos.2)
- twist the adjusting nut (pos.1) until the disc spring starts to clamp
- tighten the adjusting nut (pos.1) at 1...1.5 turns, that will provide braking moment of 200...250 Nm (148...185 lb ft)
- tighten the lock nut (pos.2) with tightening torque 100 Nm (74 lb ft).

Greasing of lower slide bearing and brake cones is already done through lubricating nipple (pos.3). Fill grease Starplex EP 2 until it will appear to the external surfaces.

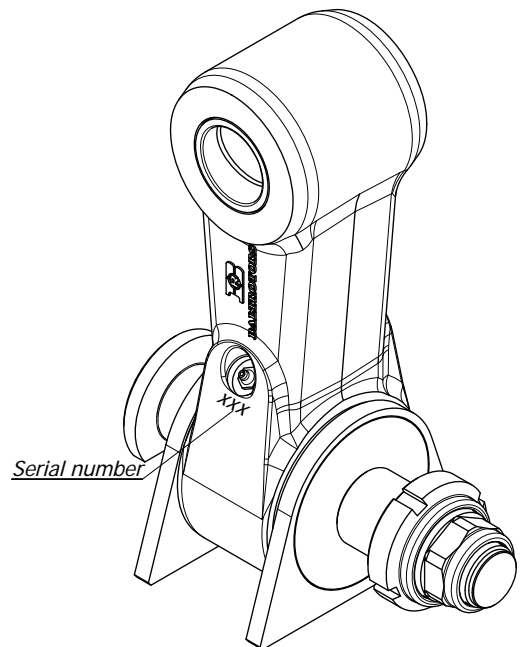
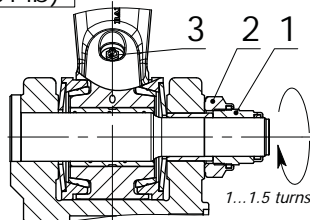
Greasing must be repeated after every 8 working hours of the link.

NOTICE! The link is delivered ungreased. It should be well greased before taking into exploitation.

Swing damper BR 30 KS



Link	Diameter D (mm)	Weight (kg)
BR 30 KS/45	45 (1.77")	20.39 (44.95 lb)
BR 30 KS/40	40 (1.57")	20.65 (45.52 lb)
BR 30 KS/35	35 (1.38")	20.78 (45.81 lb)



Instruction manual

To adjust the brake of the link, following actions have to be done:

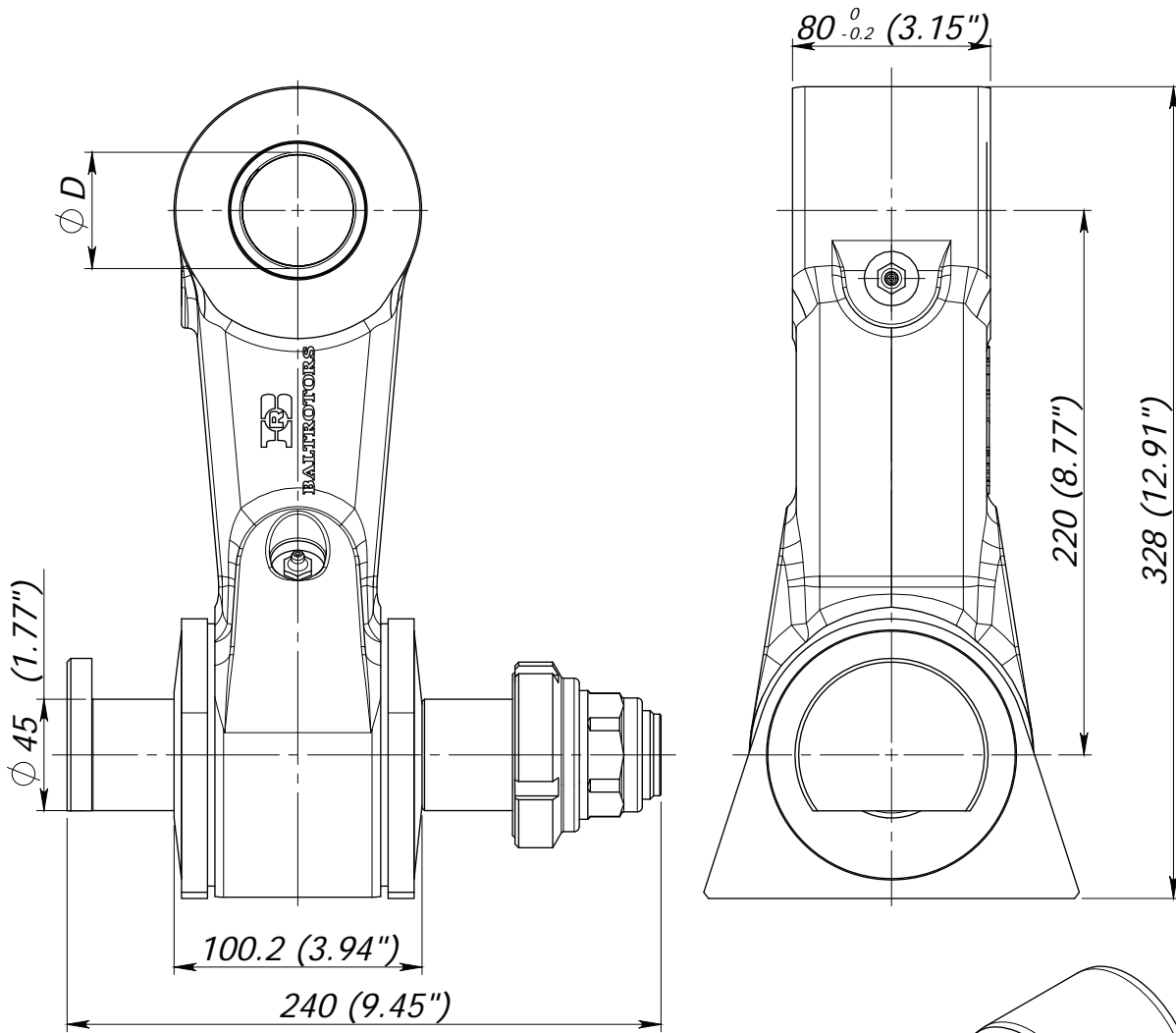
- release the lock nut (pos.2)
- twist the adjusting nut (pos.1) until the disc spring starts to clamp
- tighten the adjusting nut (pos.1) at 1...1.5 turns, that will provide braking moment of 200...250 Nm (148...185 lb ft)
- tighten the lock nut (pos.2) with tightening torque 100 Nm (74 lb ft).

Greasing of lower slide bearing and brake cones is already done through lubricating nipple (pos.3). Fill grease Starplex EP 2 until it will appear to the external surfaces.

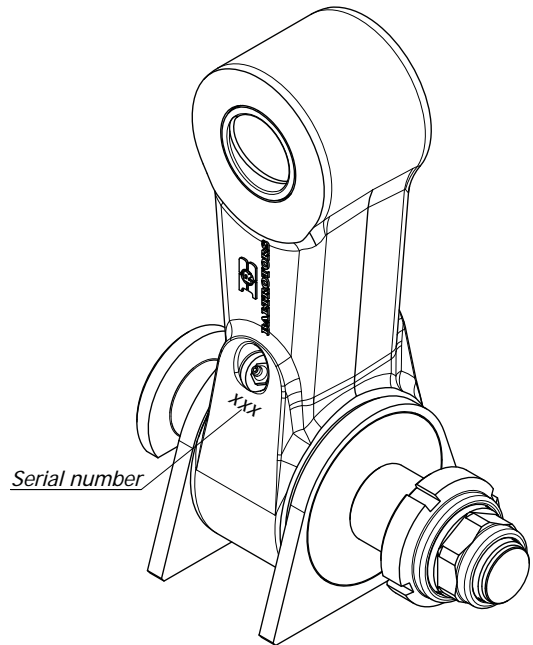
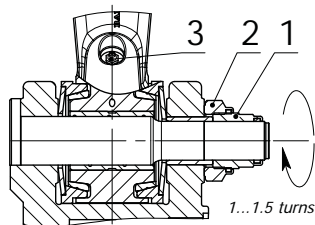
Greasing must be repeated after every 8 working hours of the link.

NOTICE! The link is delivered ungreased. It should be well greased before taking into exploitation.

Swing damper BR 30 KS-80



Link	Diameter D (mm)	Weight (kg)
BR 30 KS-80/45	45 (1.77")	19.52 (43.03 lb)
BR 30 KS-80/40	40 (1.57")	19.73 (43.50 lb)
BR 30 KS-80/35	35 (1.38")	19.90 (43.87 lb)



Instruction manual

To adjust the brake of the link, following actions have to be done:

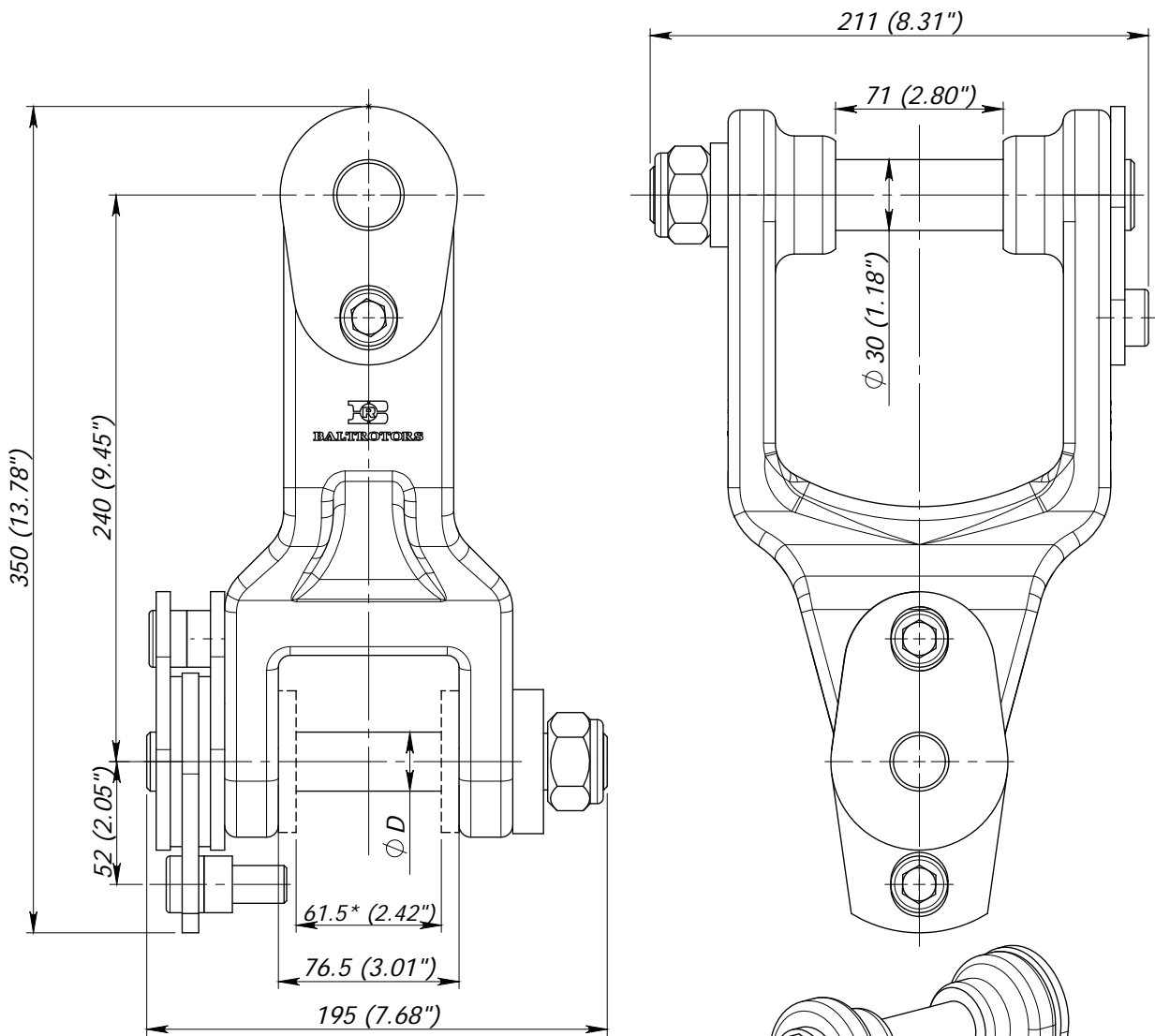
- release the lock nut (pos.2)
- twist the adjusting nut (pos.1) until the disc spring starts to clamp
- tighten the adjusting nut (pos.1) at 1...1.5 turns, that will provide braking moment of 200...250 Nm (148...185 lb ft)
- tighten the lock nut (pos.2) with tightening torque 100 Nm 74 lb ft).

Greasing of lower slide bearing and brake cones is already done through lubricating nipple (pos.3). Fill grease Starplex EP 2 until it will appear to the external surfaces.

Greasing must be repeated after every 8 working hours of the link.

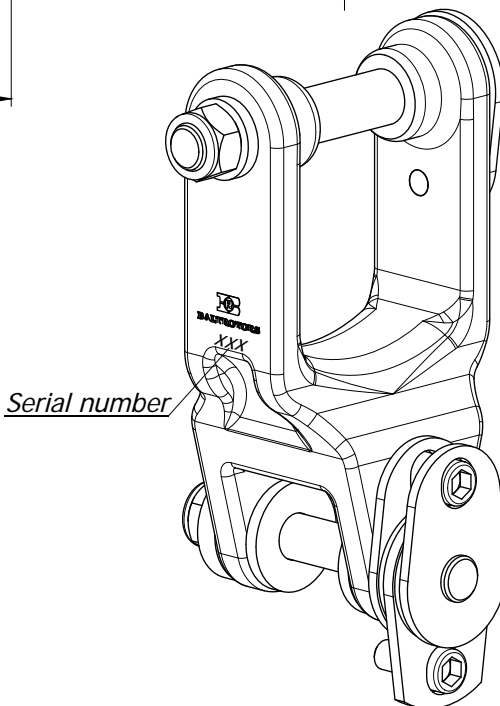
NOTICE! The link is delivered ungreased. It should be well greased before taking into exploitation.

LINK BR 40



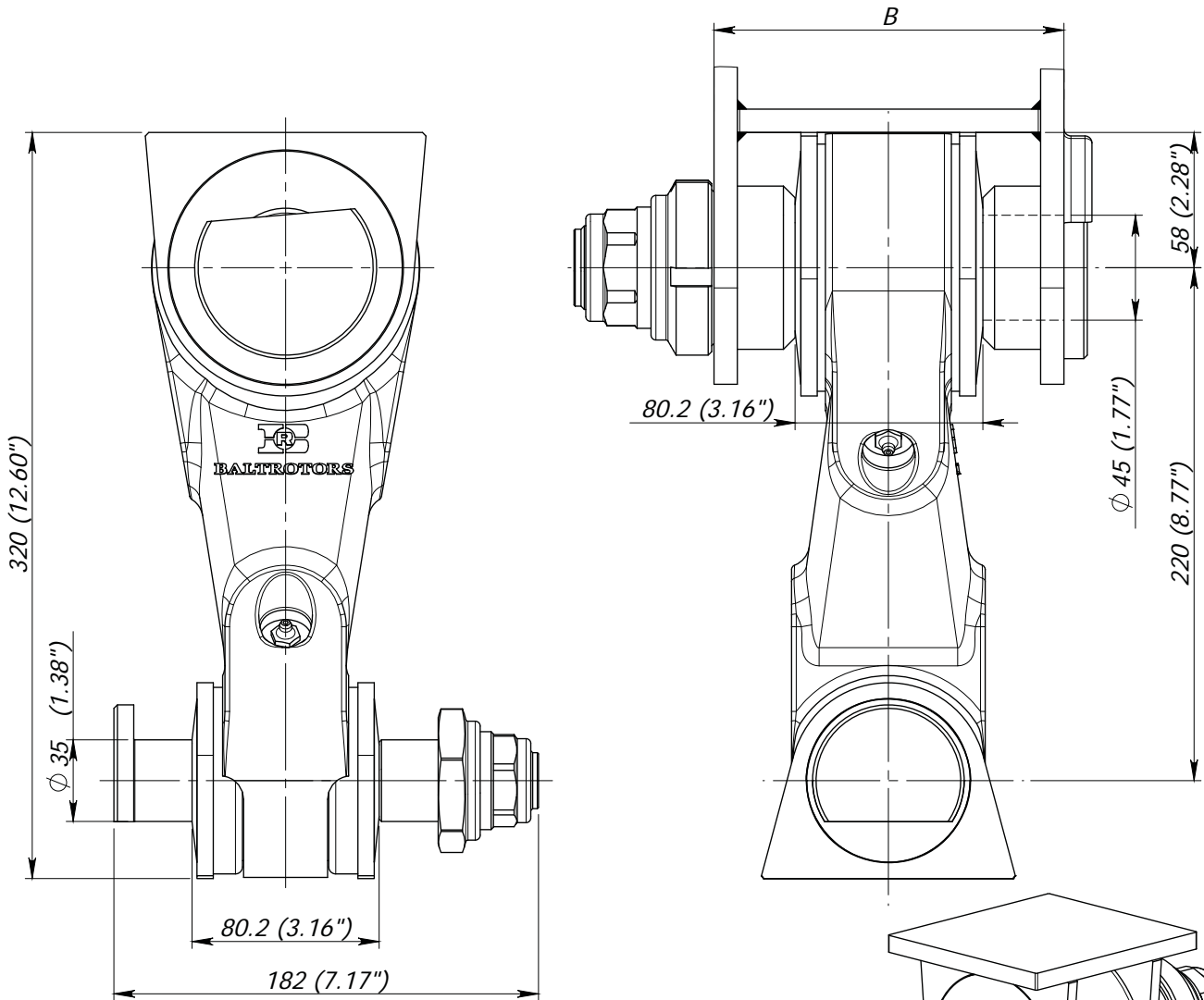
*** Only by request for rotator GR 30**

Link	Pin diameter D (mm)
BR 40	25 (0.98")
BR 40-A	30 (1.18")



- Pin locking nut is tightened with a torque of 60 - 160 Nm (45 - 120 lb ft) dependent on desired brake power.
- Weight - 13.5±1 kg (29.76±2.20 lb)

Dual swing damper BR 22 KS



Link	Crane nose outer width B (mm)	Weight (kg)
BR 22 KS/170	170 (6.69")	17.78 (39.20 lb)
BR 22 KS/160	160 (6.29")	17.65 (38.91 lb)
BR 22 KS/150	150 (5.90")	17.53 (38.64 lb)
BR 22 KS/140	140 (5.51")	17.40 (38.36 lb)
BR 22 KS/130	130 (5.12")	17.28 (38.09 lb)
BR 22 KS/120	120 (4.72")	17.15 (37.80 lb)
BR 22 KS/110	110 (4.33")	17.03 (37.54 lb)

It is possible to change size B by client's request

Instruction manual

To adjust the brake of the link, following actions have to be done:

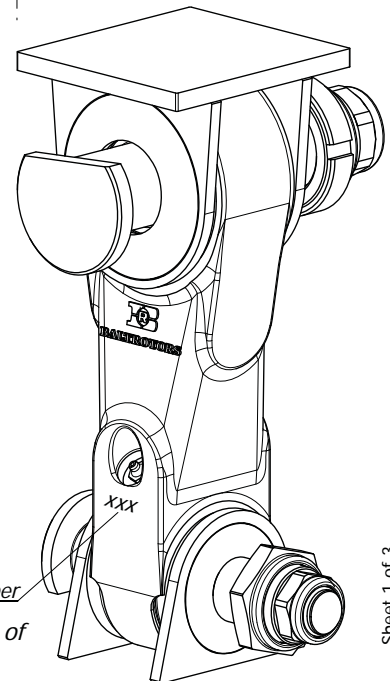
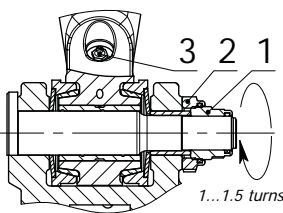
- release the lock nut (pos.2)
- twist the adjusting nut (pos.1) until the disc spring starts to clamp
- tighten the adjusting nut (pos.1) at 1...1.5 turns, that will provide braking moment of 200...250 Nm (148...185 lb ft)
- tighten the lock nut (pos.2) with tightening torque 100 Nm (74 lb ft).

Greasing of lower slide bearing and brake cones is already done through lubricating nipple (pos.3). Fill grease

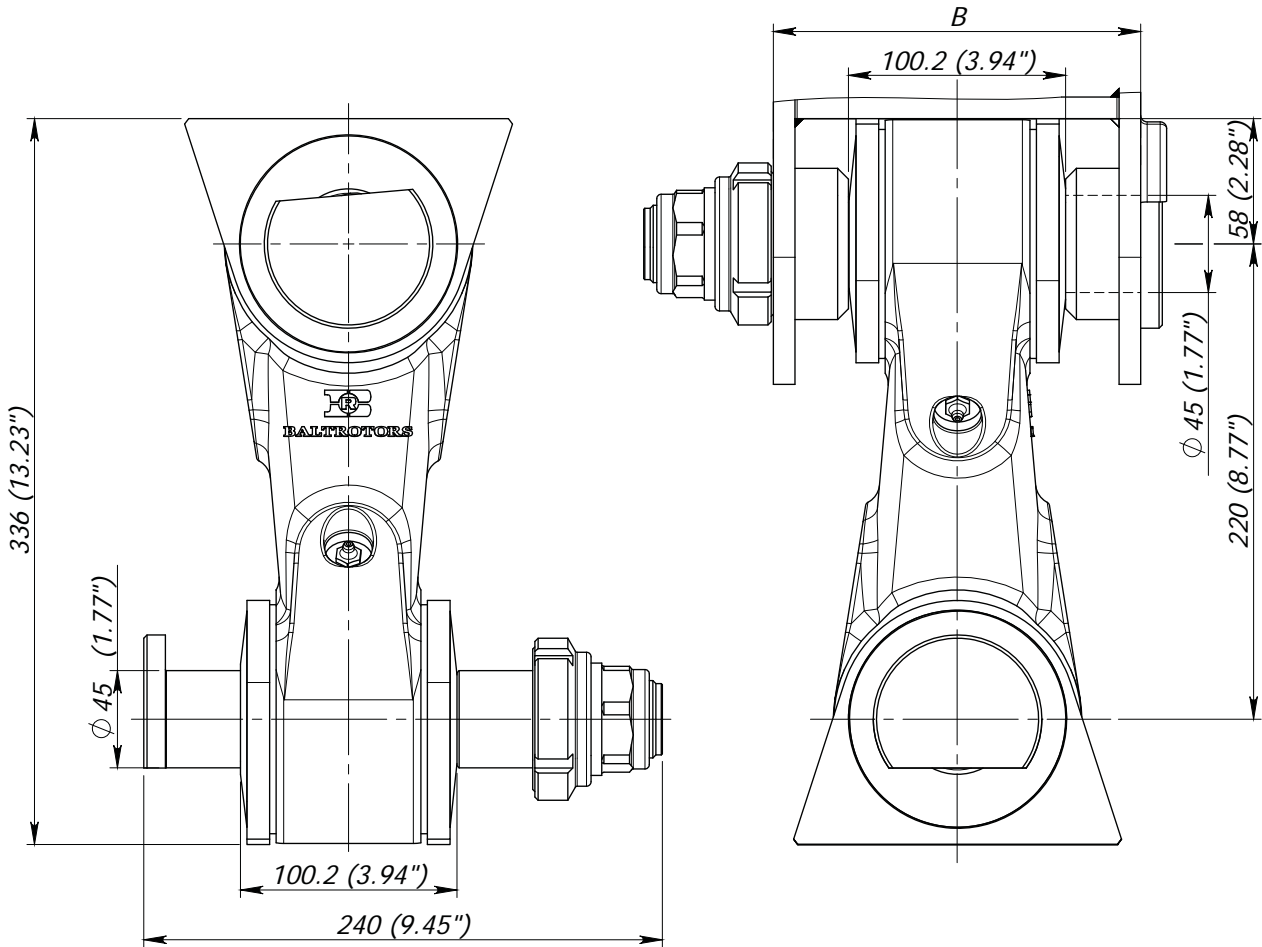
Starplex EP 2 until it will appear to the external surfaces.

Greasing must be repeated after every 8 working hours of the link.

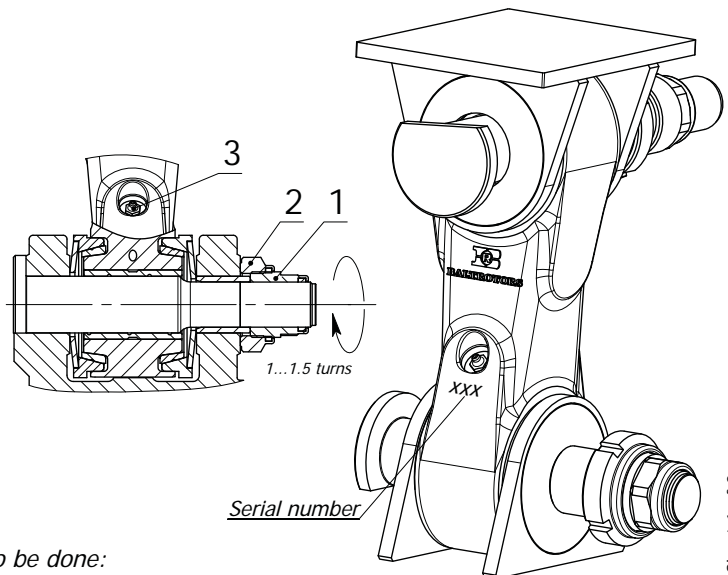
NOTICE! The link is delivered ungreased. It should be well greased before taking into exploitation.



Dual swing damper BR 32 KS



Link	Crane nose outer width B (mm)	Weight (kg)
BR 32 KS/240	240 (9.49")	26.28 (57.94lb)
BR 32 KS/230	230 (9.06")	26.15 (57.65 lb)
BR 32 KS/200	200 (7.87")	25.78 (56.84 lb)
BR 32 KS/190	190 (7.48")	25.65 (56.55 lb)
BR 32 KS/180	180 (7.09")	25.53 (56.28 lb)
BR 32 KS/170	170 (6.69")	25.40 (55.98 lb)
BR 32 KS/160	160 (6.29")	25.28 (55.73 lb)
BR 32 KS/150	150 (5.90")	25.15 (55.45 lb)
BR 32 KS/140	140 (5.51")	25.03 (55.18 lb)
BR 32 KS/130	130 (5.12")	24.90 (54.90 lb)



It is possible to change size B by client's request

Instruction manual

To adjust the brake of the link, following actions have to be done:

- release the lock nut (pos.2)
- twist the adjusting nut (pos.1) until the disc spring starts to clamp
- tighten the adjusting nut (pos.1) at 1...1.5 turns, that will provide braking moment of 200...250 Nm (148...185 lb ft)
- tighten the lock nut (pos.2) with tightening torque 100 Nm (74 lb ft).

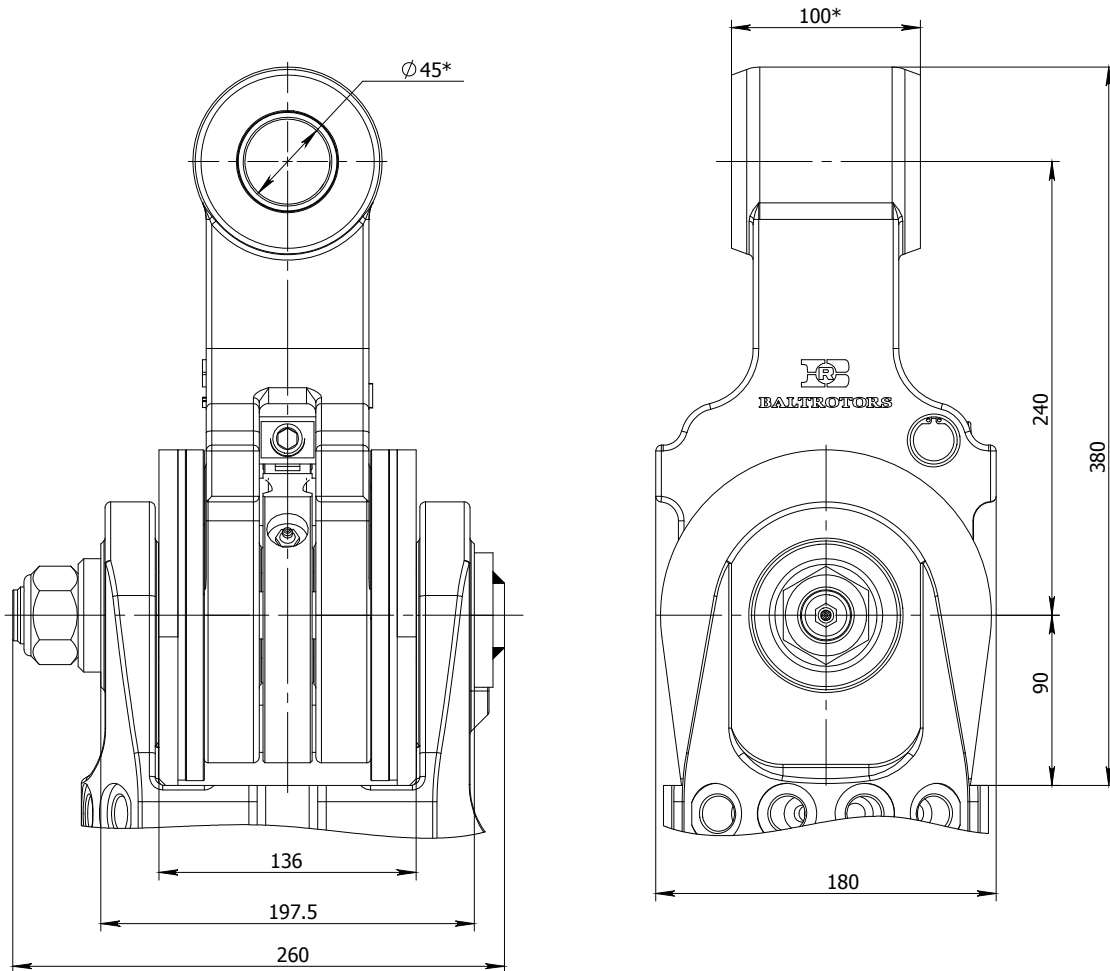
Greasing of lower slide bearing and brake cones is already done through lubricating nipple (pos.3). Fill grease Starplex EP 2 until it will appear to the external surfaces.

Greasing must be repeated after every 8 working hours of the link.

NOTICE! The link is delivered ungreased. It should be well greased before taking into exploitation.

LINK DLG30

PATENT PENDING



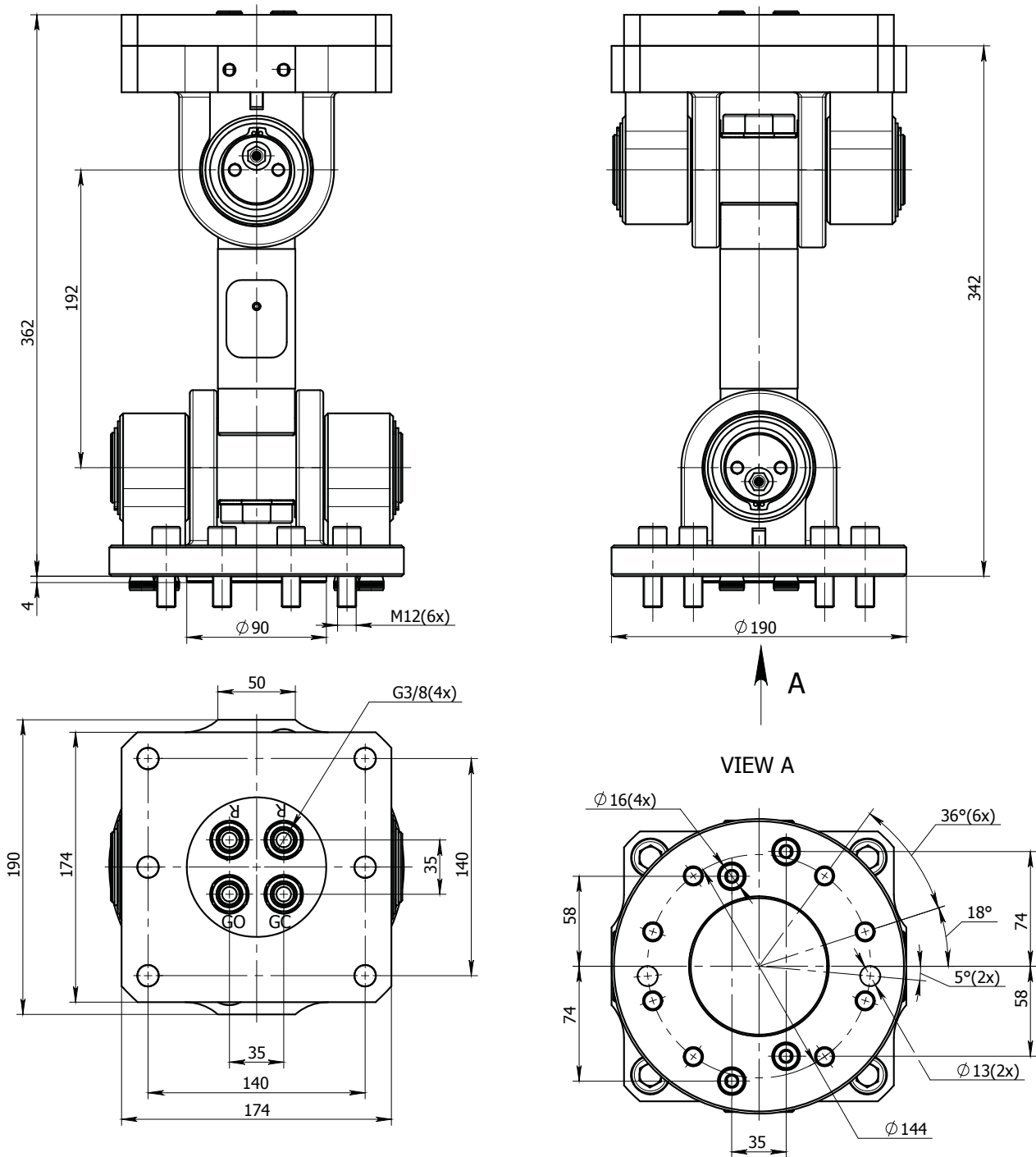
* - Other dimensions are available upon customer request

Technical data

Max load, kN
Nominal braking torque of the disc brake, Nm
Max braking torque of the disc brake, Nm
Weight, kg

160 (35969 lbf)
600 (442 lb ft)
700 (516 lb ft)
34 (75 lb)

LINK BB1



Technical data

Max axial load static, KN 55
 Max axial load dynamic, KN 25
 Weight, kg 32

Max working pressure:

Rotator $\leftarrow R \rightarrow$ Max 25 MPa
 Grapple / Tool open $\leftarrow G \rightarrow$ Max 20 MPa
 Grapple / Tool close $\rightarrow G \leftarrow$ Max 30 MPa

Connection:

G 3/8"
 G 3/8"
 G 3/8"