

RAM HOISTS

No. 512-SP



**ADVANCED FLUID
MANAGEMENT SOLUTIONS**





**ADVANCED FLUID
MANAGEMENT SOLUTIONS**

*the human side
of Quality*



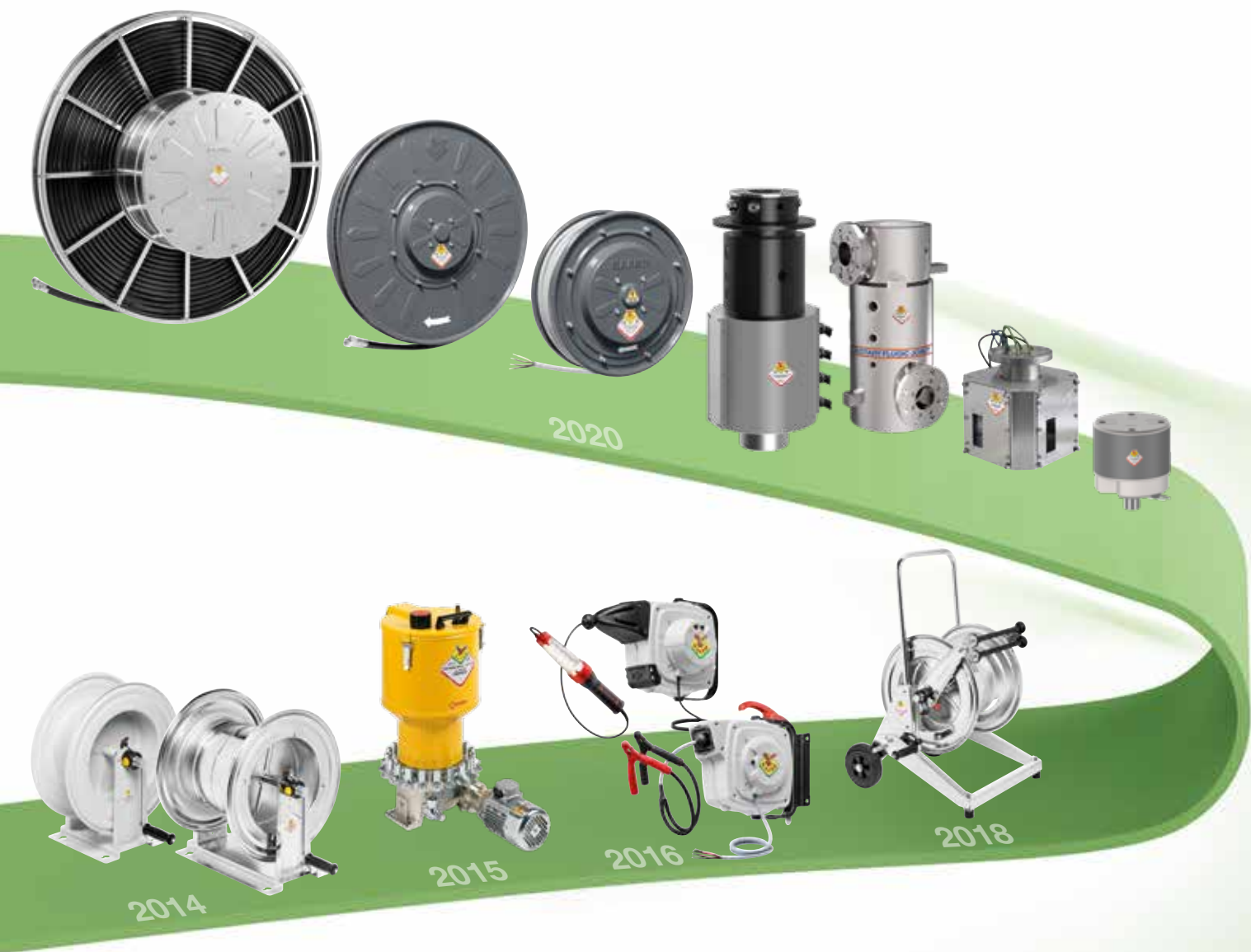
founded in 1975





**ADVANCED FLUID
MANAGEMENT SOLUTIONS**





**More than 5000 products available
for your business**





**ADVANCED FLUID
MANAGEMENT SOLUTIONS**

VISION

DESIGN

TECHNOLOGY

QUALITY

EFFICIENCY

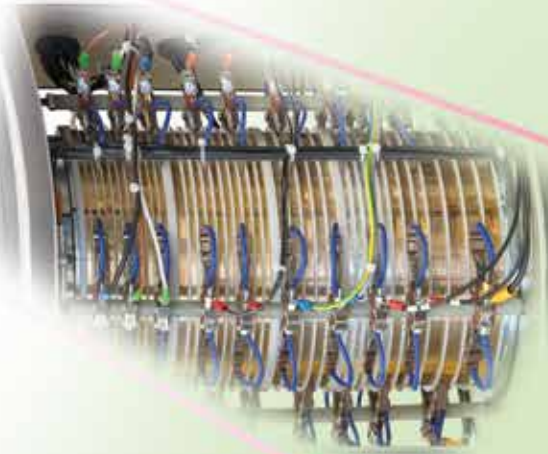
ASSISTANCE

ENVIRONMENT

PACKAGING

SHARING





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pump elevators**



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ADVANCED FLUID MANAGEMENT SOLUTIONS

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accessories for drums
for 400 lb drums



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Ram hoists for drums
from 35 to 60 lb



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Ram hoist accessories
for drums from 35 to 60 lb



The pneumatic piston pump elevators make the drum's exchange simple and fast thanks to the hoisting system with one or two columns activated pneumatically. Additionally, models equipped with the follower plate will enable you to pump grease even beyond the NLGI 3 grade, highly viscous fluids and even with high temperatures.

Our sales department is
at your disposal to provide information
and solutions.

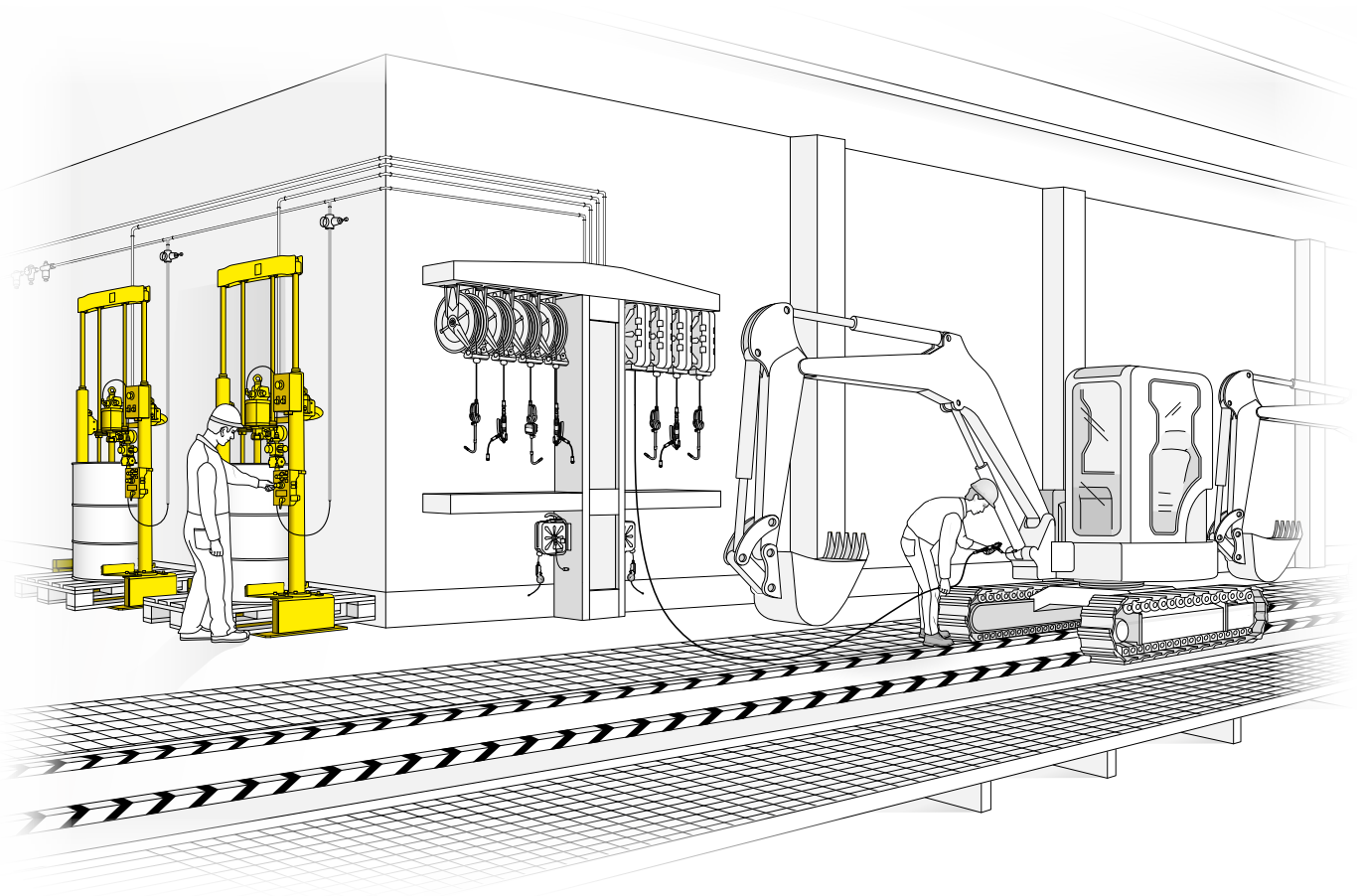
www.raasmusa.com



PUMP ELEVATORS FOR DRUMS

400 lb





Technical characteristics

FULLOPTIONAL

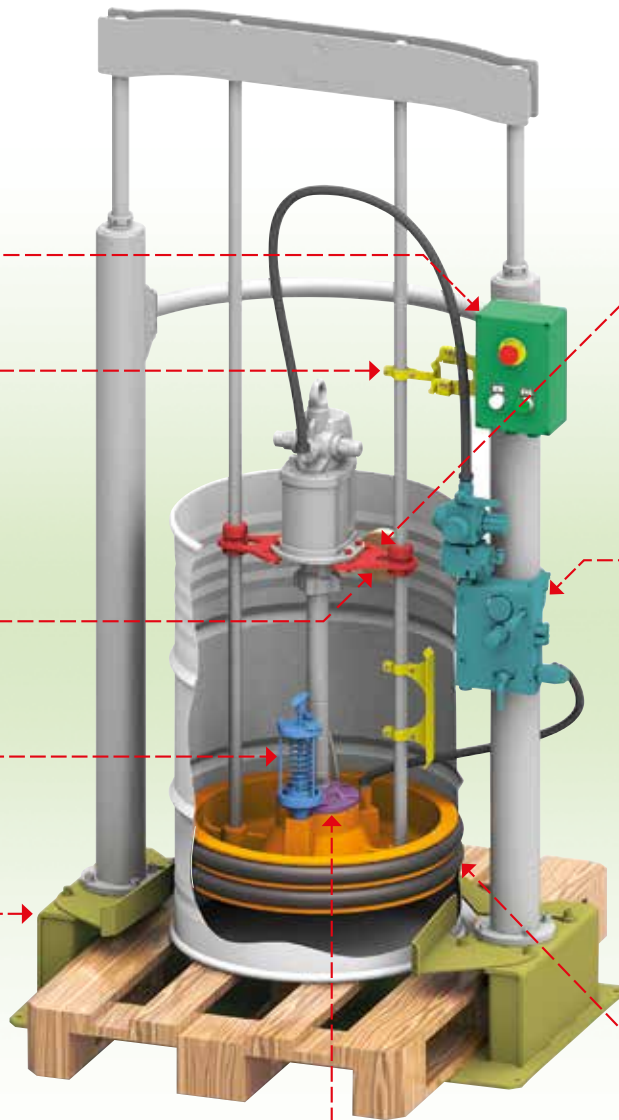
Electric-pneumatic
hybrid control.

Minimum and
maximum drum level
pneumatic control.

Support with pump
positioning clamps.

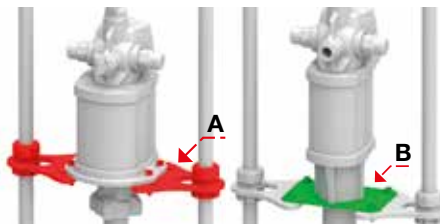
Visible air bleeder.

Base suitable for the
accommodation of
pallets with brackets
to center the drum.



STANDARD BRACKETS

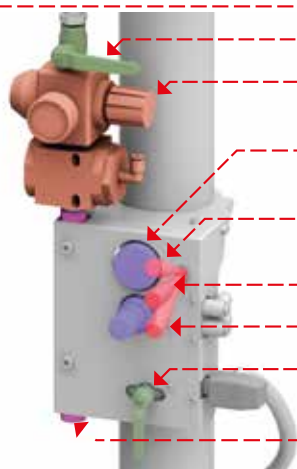
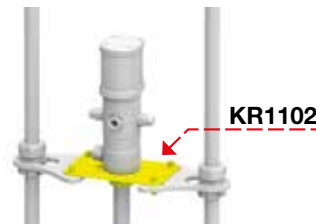
All the ram hoists are equipped with 2 standard brackets (**A - B**) suitable for mounting all our industrial pumps.



Support with pump positioning clamps.

BRACKETS ON REQUEST

KR1102:
Support bracket suitable to mount pump with $\varnothing 1.18$ " suction tube.



Pneumatic control panel.

- Pump air feeding ball valve.
- Pressure regulator with manometer for pump air feeding.
- Pressure regulator with manometer for twin column ram air feeding.
- "Follower plate and pump elevator" position.
- "Off" position.
- "Follower plate descent" position.
- Air feeding valve for the following plate lifting.
- Air inlet connection.

P/N 11/60-55

Follower plate $\varnothing 23$ " with double sealing **NBR** ring, to be used with air operated twin column ram for 400 lb drums. It can be used also with different kind of pumps thanks to special adaptors shown in the below list and available on request.

Compatible fluids: grease and lubricants also with high viscosity, industrial fluids, paints...



- Adaptor to be chosen among those available below.
- Air bleeding valve.
- Air inlet connection for pump lifting.
- Connection for outlet discharge valve.
- NBR double sealing ring.



P/N 21/61-55
Adaptor
for pumps with NPT 1" (f) suction tube.



P/N 21/62-55
Adaptor
for pumps with NPT 2" (f) suction tube.



P/N 21/63-55
Adaptor + support (KR1102)
for pumps with $\varnothing 1.18$ " suction tube.



P/N 21/64-55
Adaptor
for pumps with $\varnothing 1.77$ " suction tube.



P/N 21/65-55
Adaptor
for pumps with $\varnothing 2$ " suction tube.



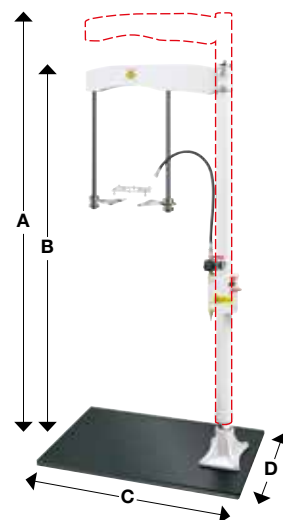
AIR-OPERATED PUMP ELEVATORS

The pump elevators are available in single column (with or without basement) or twin column version.

It is raised by compressed air, via the side mounted 3-way valve that allows to change the drum easily and quickly.



P/N	10/80-55	10/81-55	10/82-55
Column	1 with basement	1 without basement	2 with basement
Suitable for drums	400 lb	400 lb	400 lb
Working temperature	+ 36 ÷ + 104 °F	+ 36 ÷ + 104 °F	+ 36 ÷ + 104 °F
Max pressure	120 psi	120 psi	120 psi
Usable pumps	s. 234 - 238 - 312 412 - 600	s. 234 - 238 - 312 412 - 600	s. 234 - 238 - 312 412 - 600
Noise level	negligible (< 70 db)	negligible (< 70 db)	negligible (< 70 db)
Packing - Gross weight	N° 1 41 ft³ 216 lb	N° 1 24 ft³ 167 lb	N° 1 50 ft³ 284 lb
Height max/min (A - B)	108" - 69"	107" - 68"	108" - 69"
Dimensions (C - D)	34" - 25"	5.5" - 10"	43" - 25"










PERSONALIZED KIT

In order to satisfy any particular need it is possible to create a “**Personalized kit**”. Please choose the right part number in each one of the **3 steps**:

GREASE AND VISCOUS FLUIDS PROCEDURE

Choose the ram hoist (see page on the left), and then complete your kit **with pump, follower plate and drum cover**.

1 GREASE AND VISCOUS FLUIDS PUMPS

							
P/N	62195-55	63095-55	91F/451-55	91C/701-55	116F/751-55	116F/401-55	151F/701-55
Series	238	234	312	312	412	412	600
Ratio	50:1	65:1	45:1	70:1	75:1	40:1	70:1
Flow rate	3.3 lb/min	4.2 lb/min	9.7 lb/min	6.6 lb/min	9.7 lb/min	22 lb/min	15.4 lb/min
Seals	PU	PU	PU	PU	PU	PU	PU
Suction tube	37" ø 1.18"	37" ø 1.18"	37" ø 1.77"	37" ø 1.77"	37" ø 1.77"	37" ø 2"	37" ø 2"

2 GREASE AND VISCOUS FLUIDS FOLLOWER PLATE

P/N 66590-55

Follower plate ø 23" for pumps with suction tube ø 1.18".

P/N 10/60-55

Follower plate ø 23" for pumps with suction tube ø 1.77".

P/N 10/65-55

Follower plate ø 23" for pumps with suction tube ø 2".



EXAMPLE

The kit is ready to use.



3 GREASE AND VISCOUS FLUIDS DRUM COVER

P/N 65600-55

Drum cover ø 23.6" for pumps with suction tube ø 1.18".

P/N 10/50-55

Drum cover ø 23.6" for pumps with suction tube ø 1.77".

P/N 10/55-55

Drum cover ø 23.6" for pumps with suction tube ø 2".



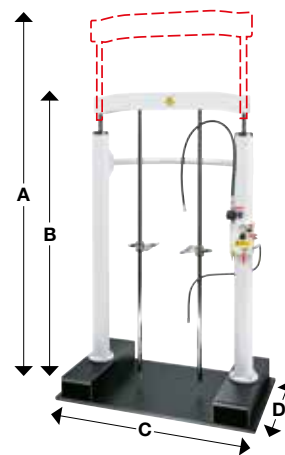


RAM HOISTS

The two versions **p/n 10/85-55** and **p/n 11/85-55** include the use of a **follower plate with double seal** to facilitate the pumping of grease with high viscosity. They differ according to the type of accommodation base for pallet.



P/N	10/85-55	11/85-55
Column	2	2
Suitable for drums	400 lb	400 lb
Working temperature	+36 ÷ + 104 °F	+36 ÷ + 104 °F
Max pressure	120 psi	120 psi
Usable pumps	s. 312 - 412 - 600 - 700	s. 312 - 412 - 600 - 700
Noise level	negligible (< 70 db)	negligible (< 70 db)
Pushing force downwards at: *	60 psi 960 lb - 90 psi 1440 lb 120 psi 1920 lb	60 psi 960 lb - 90 psi 1440 lb 120 psi 1920 lb
Basement accommodation pallet	-	P/N 11/101-55
Packing - Gross weight	<div> <div>N° 1</div> <div>65 ft³</div> <div>416 lb</div> </div>	<div> <div>N° 1</div> <div>65 ft³</div> <div>422 lb</div> </div>
Height max/min (A - B)	110" - 71"	110" - 71"
Dimensions (C - D)	43" - 25"	43" - 25"











* Theoretical valves, friction coefficient has not been considered. Furthermore depression's force created by the pump during suction (+4700 lb) must be added to the listed figures.

PERSONALIZED KIT

In order to satisfy any particular need it is possible to create a “Personalized kit”. According to the kind of fluids choose the right part number in each one of the **4 steps**:

1 GREASE, VISCOUS FLUIDS, OIL AND INDUSTRIAL FLUIDS PUMPS

Choose the ram hoist (see page on the left), and then complete your kit according with your needs with one of the industrial pumps below. We introduce the main versions but all the RAASM industrial pumps are suitable.

								
P/N	150D/61-55	180D/81-55	90F/111-55	115F/181-55	90FSP/451-55	115FSP/751-55	118FSP/401-55	153FSP/701-55
Series	600	700	312	412	312	412	412	600
Ratio	6:1	8:1	11:1	18:1	45:1	75:1	40:1	70:1
Flow rate	21 gpm	17 gpm	8 gpm	6 gpm	9.7 lb/min	9.7 lb/min	22 lb/min	15.4 lb/min
Seals	PU	PU	PU	PU	PU	PU	PU	PU
Suction tube	NPT 2" (f)	NPT 2" (f)	19" ø 1.77"	19" ø 1.77"	19.7" ø 1.77"	19.7" ø 1.77"	23.6" ø 2"	23.6" ø 2"

2 FOLLOWER PLATE

Add to the kit the follower plate with double seal p/n 11/60-55.

P/N 11/60-55
Follower plate ø 23"
with NBR double seal ring.



3 ADAPTOR

Choose the adaptor to mount on the follower plate p/n 11/60-55 according to the pump suction tube diameter.

P/N 21/61-55
Adaptor for pumps with NPT 1" (f) suction tube.

P/N 21/62-55
Adaptor for pumps with NPT 2" (f) suction tube.

P/N 21/63-55
Adaptor + support (KR1102) for pumps with ø 1.18" suction tube.

P/N 21/64-55
Adaptor for pumps with ø 1.77" suction tube.

P/N 21/65-55
Adaptor for pumps with ø 2" suction tube.



4 OPTIONAL

If you need or if you want something more add one of the available optional introduced on page 21.



EXAMPLE

The kit is ready to use.



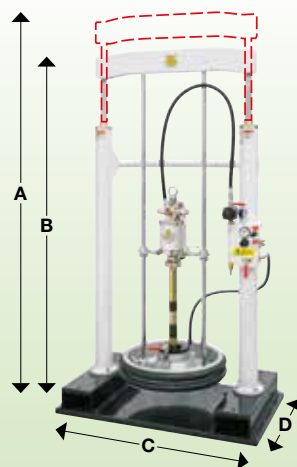


RAM HOISTS KITS

Air-operated twin column ram hoist with industrial pump.

It is raised and lowered by compressed air, via the side mounted 3-way valve.

Essential when pumping high viscosity and heavy fluids since ram pushes down the follower plate helping pump working. It is suitable for **400 lb** drums.

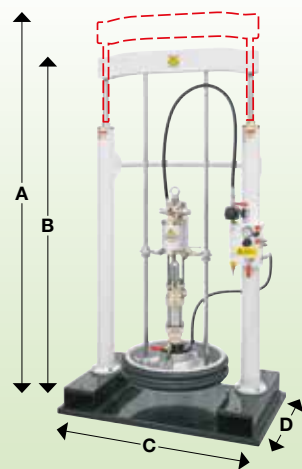


P/N	10/1561P1N-55	10/1881P1N-55	10/09111P1N-55	10/12181P1N-55
Twin column ram	P/N 10/85-55	P/N 10/85-55	P/N 10/85-55	P/N 10/85-55
Follower plate in NBR	P/N 11/60-55	P/N 11/60-55	P/N 11/60-55	P/N 11/60-55
Adaptor	P/N 21/62-55	P/N 21/62-55	P/N 21/64-55	P/N 21/64-55
Pump with seals in PU	P/N 150D/61-55	P/N 180D/81-55	P/N 90F/111-55	P/N 115F/181-55
Ratio	6:1	8:1	11:1	18:1
Flow rate	21 gpm	17 gpm	8 gpm	6 gpm
Suction tube	NPT 2" (f)	NPT 2" (f)	ø 1.77"	ø 1.77"
Pump connection hose	P/N 996.3015-55	P/N 996.3015-55	P/N 996.3015-55	P/N 996.3015-55
Follower plate connection hose	P/N 995.301-55	P/N 995.301-55	P/N 995.301-55	P/N 995.301-55
Suitable for drums	400 lb	400 lb	400 lb	400 lb
Packing - Gross weight	N° 1 64 ft ³ 550 lb	N° 1 64 ft ³ 260 lb	N° 1 64 ft ³ 490 lb	N° 1 64 ft ³ 500 lb
Height max/min (A - B)	110" - 71"	110" - 71"	110" - 71"	110" - 71"
Dimensions (C - D)	43" - 25"	43" - 25"	43" - 25"	43" - 25"



RAM HOISTS KITS

The kits offered in these two pages differ in the industrial pneumatic pumps installed. Usable with **400 lb** drums, they are designed to pump also very viscous fluids and grease at various distances. According to the personal needs, choose the most suitable model and, eventually, personalize it with the accessories on page 21.



P/N	10/12401P1N-55	10/09451P1N-55	10/12751P1N-55	10/15701P1N-55
Twin column ram	P/N 10/85-55	P/N 10/85-55	P/N 10/85-55	P/N 10/85-55
Follower plate in NBR	P/N 11/60-55	P/N 11/60-55	P/N 11/60-55	P/N 11/60-55
Adaptor	P/N 21/65-55	P/N 21/64-55	P/N 21/64-55	P/N 21/65-55
Pump with seals in PU	P/N 118FSP/401-55	P/N 90FSP/451-55	P/N 115FSP/751-55	P/N 153FSP/701-55
Ratio	40:1	45:1	75:1	70:1
Flow rate	22 lb/min	9.7 lb/min	9.7 lb/min	15.4 lb/min
Suction tube	ø 2"	ø 1.77"	ø 1.77"	ø 2"
Pump connection hose	P/N 996.3015-55	P/N 996.3015-55	P/N 996.3015-55	P/N 996.3015-55
Follower plate connection hose	P/N 995.301-55	P/N 995.301-55	P/N 995.301-55	P/N 995.301-55
Suitable for drums	400 lb	400 lb	400 lb	400 lb
Packing - Gross weight	N° 1 64 ft ³ 500 lb	N° 1 64 ft ³ 496 lb	N° 1 64 ft ³ 500 lb	N° 1 64 ft ³ 510 lb
Height max/min (A - B)	110" - 71"	110" - 71"	110" - 71"	110" - 71"
Dimensions (C - D)	43" - 25"	43" - 25"	43" - 25"	43" - 25"

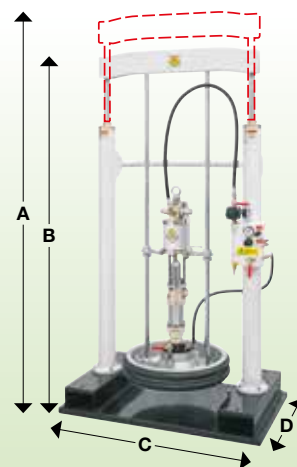


RAM HOISTS KITS

Air operated twin column ram hoist with industrial pump.

The underlying models include as a standard accessory the accommodation base pallet, essential for positioning easily and correctly the pallet where the drum rests. Additionally, various accessories are available, which increase the safety and functionality of the article, assembled singularly or simultaneously according to the code. Only the model "Full Optional" p/n 11/12751P1NH-55 presents all the equipment listed on pages 12 and 13. Kits are suitable for 400 lb drums.

FULLOPTIONAL
see page 12-13



P/N	11/12401P1N-55	11/12751P1N-55	11/12401P1NG-55	11/12751P1NH-55
Twin column ram	P/N 11/85-55	P/N 11/85-55	P/N 11/85-55	P/N 11/85-55
Follower plate in NBR	P/N 11/60-55	P/N 11/60-55	P/N 11/60-55	P/N 11/60-55
Adaptor	P/N 21/65-55	P/N 21/64-55	P/N 21/65-55	P/N 21/64-55
Pump with seals in PU	P/N 118FSP/401-55	P/N 115FSP/751-55	P/N 118FSP/401-55	P/N 115FSP/751-55
Ratio	40:1	75:1	40:1	75:1
Flow rate	22 lb/min	9.7 lb/min	22 lb/min	9.7 lb/min
Suction tube	ø 2"	ø 1.77"	ø 2"	ø 1.77"
Pump connection hose	P/N 996.3015-55	P/N 996.3015-55	P/N 996.3015-55	P/N 996.3015-55
Follower plate connection hose	P/N 995.301-55	P/N 995.301-55	P/N 995.301-55	P/N 995.301-55
Pneumatic limit switch	-	-	P/N 11/130-55	P/N 11/130-55
Visible air bleeder	-	-	P/N 11/102-55	P/N 11/102-55
Electric pneumatic hybrid control	-	-	-	P/N 11/140-55
Outlet pressure relief valve	-	-	-	P/N 11/103-55
Packing - Gross weight	N° 1 64 ft³ 610 lb	N° 1 64 ft³ 480 lb	N° 1 64 ft³ 610 lb	N° 1 64 ft³ 630 lb
Height max/min (A - B)	116" - 77"	116" - 77"	116" - 77"	116" - 77"
Dimensions (C - D)	43" - 25"	43" - 25"	43" - 25"	43" - 25"



RAM HOIST ACCESSORIES FOR 400 lb DRUMS

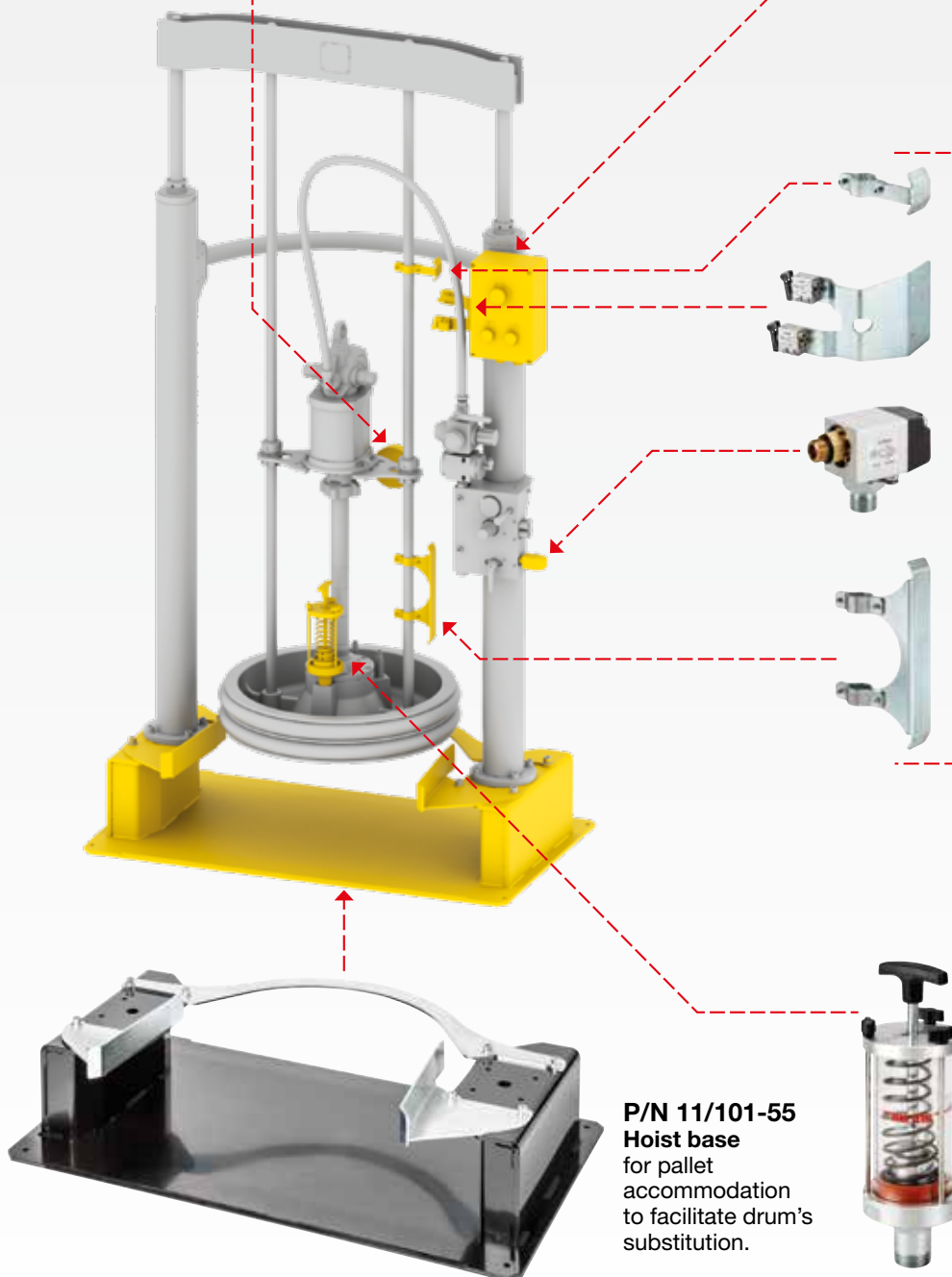
P/N 11/104-55
System maximum
pressure relief valve
(pump output), which
can be manually set.



P/N 11/103-55
Outlet pneumatic
system pressure
relief valve
(to integrate with
p/n 11/140-55).



P/N 11/140-55
Hybrid electric-
pneumatic control:
features a system
discharge timer manually
settable, which activates
valve p/n 11/103-55.



P/N 11/130-55
Pneumatic controls
of the maximum and
minimum drum's levels.



P/N 11/101-55
Hoist base
for pallet
accommodation
to facilitate drum's
substitution.



P/N 11/102-55
Visible air bleeder
for fluid press hoist:
eliminates air pockets
inside the drum,
leaving a clean
environment.





RAM HOISTS FOR DRUMS

35 ÷ 60 lb





Technical characteristics

FULLOPTIONAL

Handle to facilitate the moving of the cart.

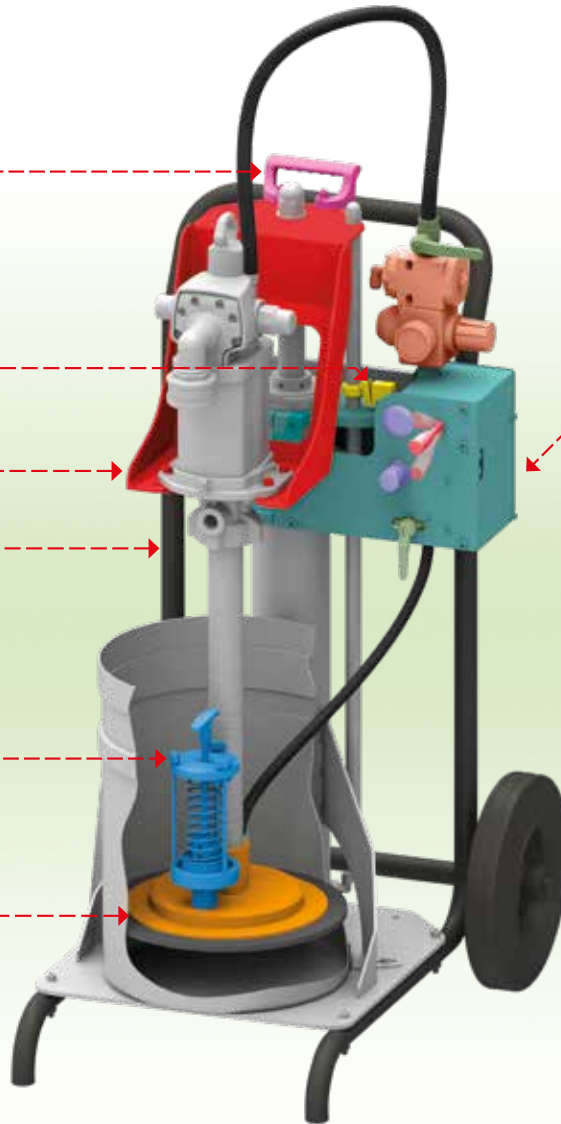
Minimum drum level pneumatic control.

Support with pump positioning clamps.

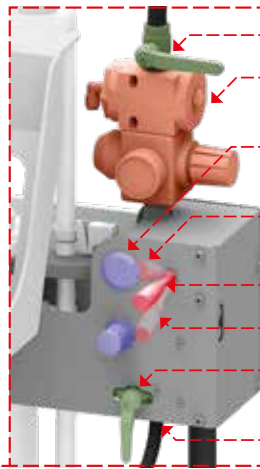
Trolley for the kit.

Visible air bleeder.

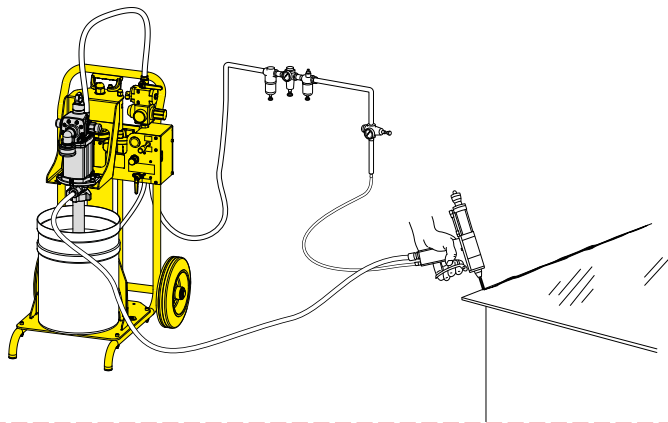
Follower plate.



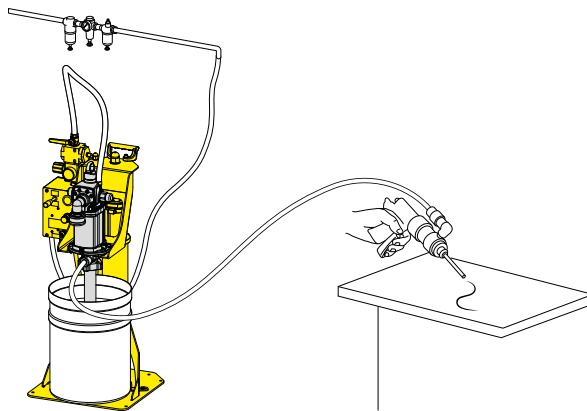
Pneumatic control panel



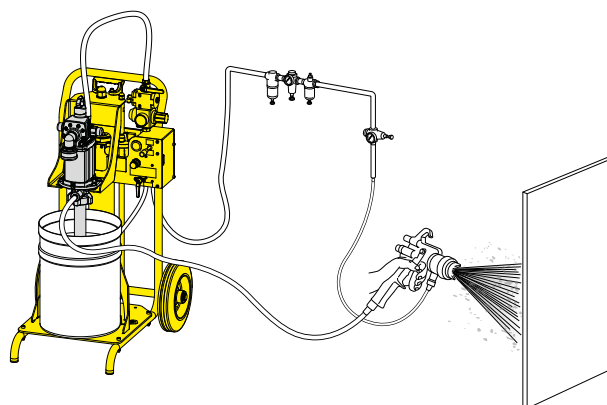
- Pump air feeding ball valve.
- Pressure regulator with manometer for pump air feeding.
- Pressure regulator with manometer for twin column ram air feeding.
- **“Follower plate and pump lifting”** position.
- **“Off”** position.
- **“Follower plate descent”** position.
- Ball valve to put air under the follower plate for pump lifting.
- Air inlet connection.



Fluid distribution system
(for paints, lubricants, protective liquids,
etc.) with spray gun.



Automated system for the delivery
of preselected quantities of fluids (inks,
paints, greases, etc.).



Application of sealants, adhesives,
greases, etc., by means of special
delivery gun.



RAM HOISTS FOR DRUMS FROM 35 to 60 lb

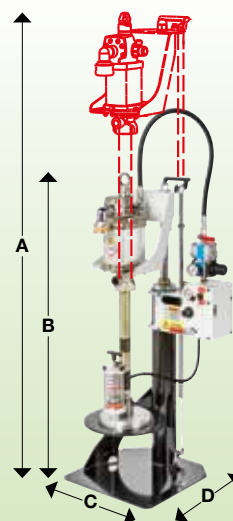
Air-operated single column ram hoist with industrial pump. It is raised and lowered by compressed air, via the side mounted 3-way valve.

Essential when pumping high viscosity and heavy fluids since ram pushes down the follower plate helping pump working.

It is suitable for drums

from 35 to 60 lb drums.

The follower plate available on request, is suitable for drums with max diameter 12.2" and max height 19.3".



P/N	12/85-55	12/85B-55
Minimum level pneumatic control	-	P/N 12/130-55
Working temperature	+36 ÷ +104 °F	
Max pressure	44 psi	
Max air pressure membrane	44 psi	
Usable pumps	s. 312 - 412	
Noise level	negligible (< 70 db)	
Pushing force downwards at: *	15 psi 122 lb - 22 psi 180 lb	
Packing - Gross weight	N° 1 10.6 ft³ 136 lb	N° 1 10.6 ft³ 137 lb
Height max/min (A - B)	57.5" - 38.2"	57.5" - 38.2"
Dimensions (C - D)	19.7" - 18.9"	19.7" - 18.9"

* Theoretical valves, friction coefficient has not been considered. Furthermore depression's force created by the pump during suction (+4700 lb) must be added to the listed figures.

PERSONALIZED KIT

In order to satisfy any particular need it is possible to create a “**Personalized kit**”. According to the kind of fluids, choose the right part number in each one of the **4 steps**:

1 GREASE, VISCOUS FLUIDS, OIL AND INDUSTRIAL FLUIDS PUMPS

Choose the ram hoist (see page on the left), and then complete your kit according with your needs with one of the industrial pumps below.



P/N	90FPM/451-55	115FPM/751-55
Series	312	412
Ratio	45:1	75:1
Flow rate	9.7 lb/min	9.7 lb/min
Seals	PU	PU
Suction tube	19.7" - Ø 1.77"	19.7" - Ø 1.77"

2 FOLLOWER PLATE

Add to the kit the follower plate.

P/N 11/34-55
Follower plate Ø 12.2"
 with NBR seal ring and suction tube adaptor Ø 1.77" (for drum with internal Ø from 10.2" to 12.2").



3 TROLLEY

Choose if you want a mobile unit. In this case add p/n 80030-55.

P/N 80030-55
Trolley for ram hoist with drums from 35 to 60 lb.



4 OPTIONAL

If you need something more add one of the available optional introduced on page 29.



EXAMPLE

The kit is ready to use.





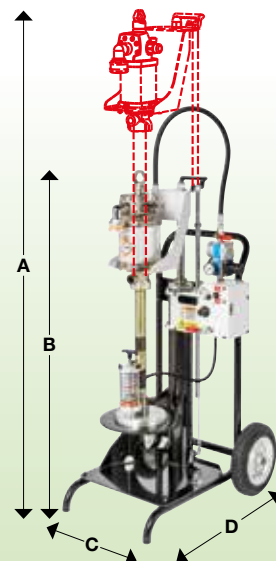
RAM HOISTS KITS

Air operated single column ram hoist with industrial pump.

The following models, with or without trolley, provide some useful accessories to increase the safety and functionality of the article, assembled singularly or simultaneously, according to the code. Only the models "Full Optional"

p/n 22/09451P1NG-55 and p/n 22/12751P1NG-55 present all the equipment listed on pages 24 and 25. Kits are suitable for drums from 35 to 60 lb. The available membrane is suitable for drums with a max ϕ of 12.2" and a max height of 19.3".

FULLOPTIONAL
see page 24-25



P/N WITHOUT TROLLEY	12/09451P1NB-55	12/12751P1NB-55	12/09451P1NG-55	12/12751P1NG-55
P/N WITH TROLLEY	22/09451P1NB-55	22/12751P1NB-55	22/09451P1NG-55	22/12751P1NG-55
Twin column ram	P/N 12/85B-55	P/N 12/85B-55	P/N 12/85B-55	P/N 12/85B-55
Follower plate in NBR	P/N 11/34-55	P/N 11/34-55	P/N 11/34-55	P/N 11/34-55
Pump with seals in PU	P/N 90FPM/451-55	P/N 115FPM/751-55	P/N 90FPM/451-55	P/N 115FPM/751-55
Ratio	45:1	75:1	45:1	75:1
Flow rate	9.7 lb/min	9.7 lb/min	9.7 lb/min	9.7 lb/min
Suction tube	ϕ 19.7"	ϕ 19.7"	ϕ 19.7"	ϕ 19.7"
Visible air bleeder	-	-	P/N 11/102-55-55	P/N 11/102-55
Minimum level pneumatic control	P/N 12/130-55	P/N 12/130-55	P/N 12/130-55	P/N 12/130-55
Pump connection hose	P/N 996.301-55	P/N 996.301-55	P/N 996.301-55	P/N 996.301-55
Follower plate connection hose	P/N 993.201-55	P/N 993.201-55	P/N 993.201-55	P/N 993.201-55
Suitable for drums	35 ÷ 60 lb	35 ÷ 60 lb	35 ÷ 60 lb	35 ÷ 60 lb
Packing - Gross weight (without trolley)	N° 1 20.5 ft³ 176 lb	N° 1 20.5 ft³ 180 lb	N° 1 20.5 ft³ 178 lb	N° 1 20.5 ft³ 181 lb
Packing - Gross weight (with trolley)	N° 1 20.5 ft³ 214 lb	N° 1 20.5 ft³ 217 lb	N° 1 20.5 ft³ 170 lb	N° 1 20.5 ft³ 218 lb
Height max/min (A - B) *	61" - 42"	61" - 42"	61" - 42"	61" - 42"
Dimensions (C - D)	24" - 28.5"	24" - 28.5"	24" - 28.5"	24" - 28.5"

* dimensions without trolley see page 26



RAM HOIST ACCESSORIES FOR DRUMS FROM 35 to 60 lb



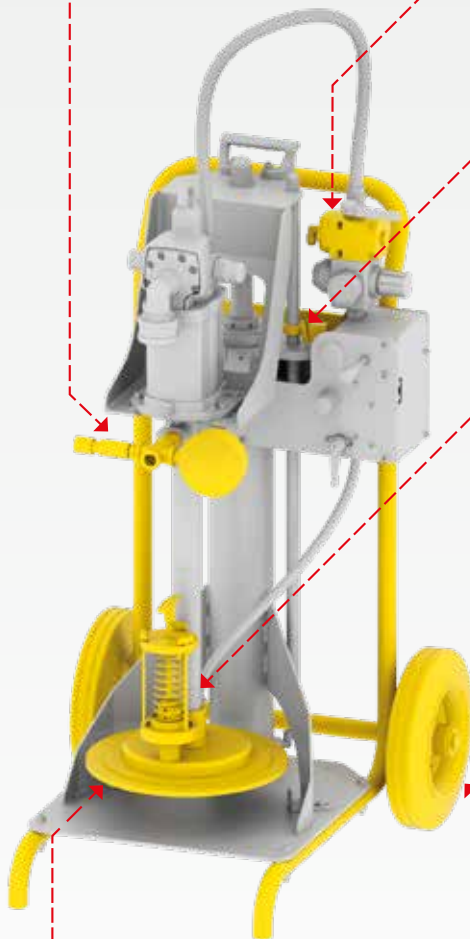
P/N 11/104-55
System pressure
relief valve.



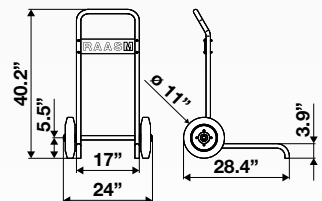
P/N 12/130-55
Pneumatic controls
of the minimum
drum's level.



P/N 11/102-55
Visible air bleeder for fluid
press hoist, eliminates air
pockets inside the drum
leaving the environment
clean.



P/N 80030-55
Trolley for ram hoist with
drums from 35 to 60 lb.



P/N 11/34-55
Follower plate
Ø 12.2"
with NBR seal ring
and suction tube
adaptor Ø 1.77"
(for drum with internal
Ø from 10.2" to 12.2").



Lined area for notes, consisting of multiple horizontal lines.



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