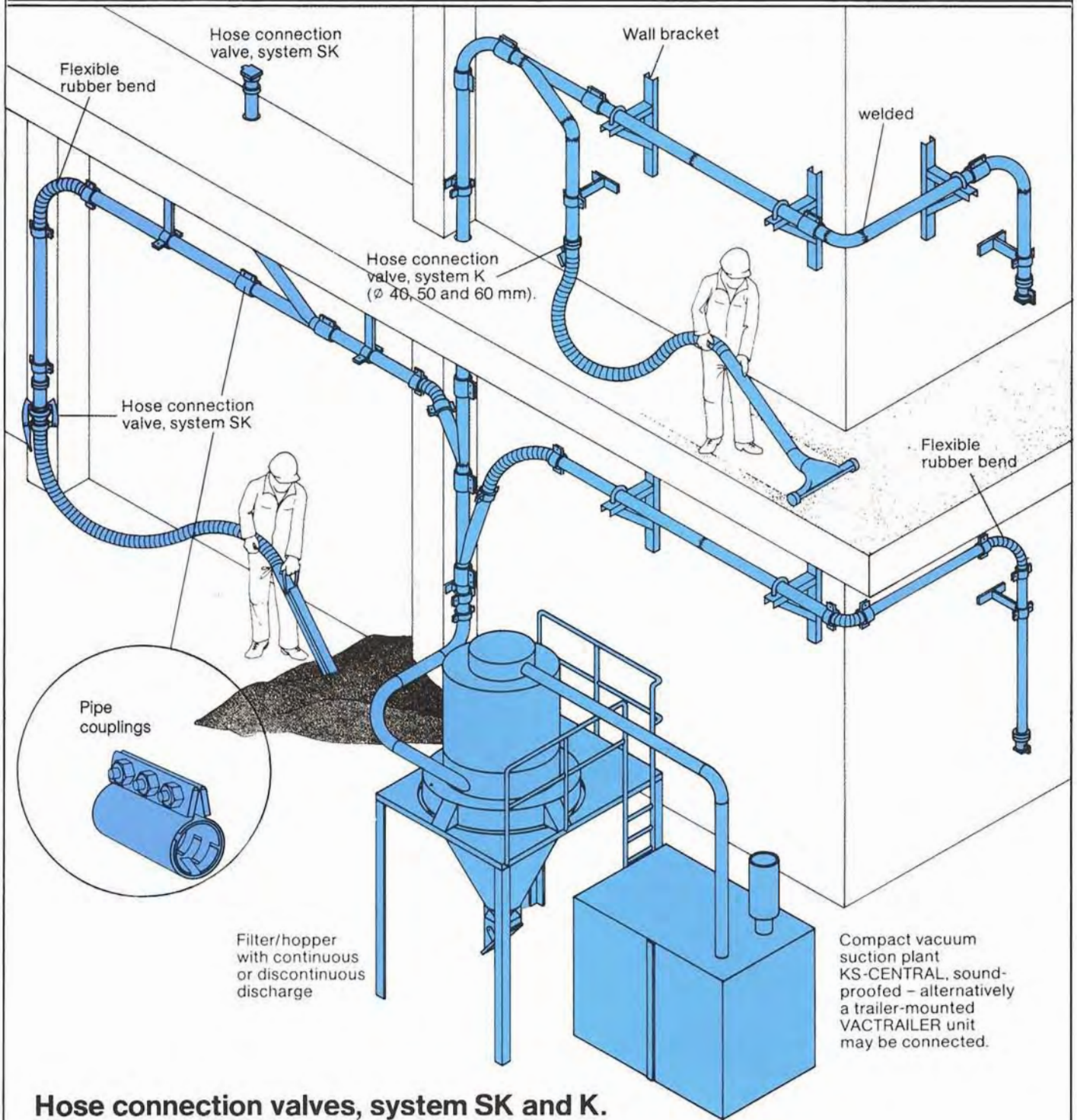
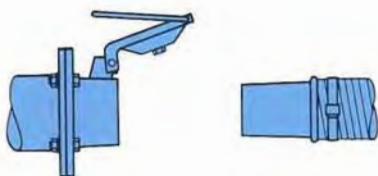


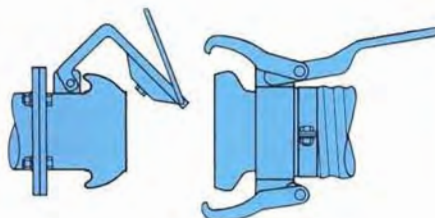
Pipework system with K and SK suction tools and BR piping elements



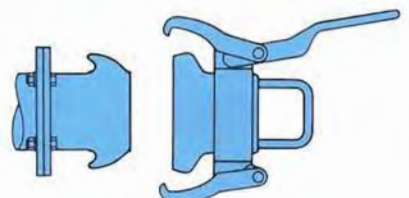
Hose connection valves, system SK and K.



Hose connection valve system K with automatic closing lid, ∅ 40, 50 and 60 mm.



Hose connection valve system SK with automatic closing lid, ∅ 80, 100,



Hose connection valve system SK with end cap, ∅ 80, 100, 120, 150

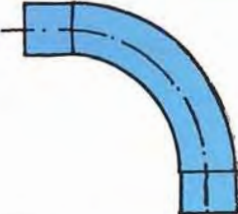
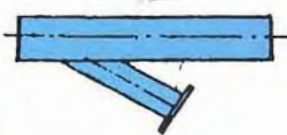

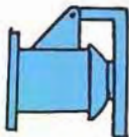
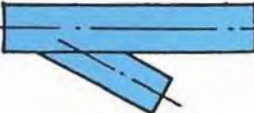
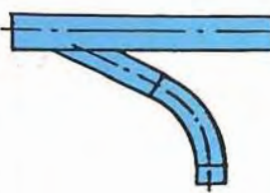
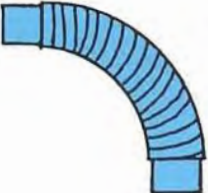
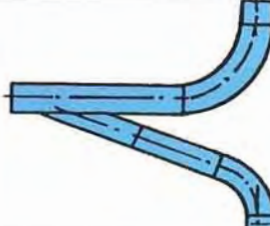




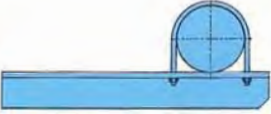
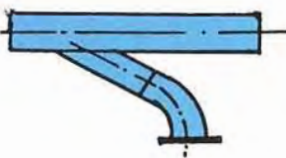


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(VHB-01-002/9706)

	<p>90° BEND 80NB VWY85010 100NB VWY85015 125NB VWY85020 R=5 to 10D</p>	 <p>BRANCH C/W FLANGE 80 x 80 VWY52165 100 x 80 VWY53165 125 x 80 VWY54165</p>
	<p>70° BEND 80NB VWY85011 100NB VWY85016 125NB VWY85021 R=5 to 10D</p>	 <p>SUCTION POINT 80NB VWY52511 100NB VWY53511</p>
	<p>20° BRANCH 80 x 80 VWY52161 100 x 100 VWY53161 125 x 125 VWY54161</p>	<p>80mm Flange VWY85512 100mm Flange VWY85513 80mm Gasket VWY85502 100mm Gasket VWY85503</p>
	<p>90° BRANCH C/W BEND 80 x 80 VWY52211 100 x 80 VWY53221 100 x 100 VWY53211 125 x 80 VWY54225 125 x 100 VWY54221 125 x 125 VWY54211</p>	 <p>RUBBER BEND 1 to 3M 80NB VWY52031-52033 100NB VWY53031-53033 125NB VWY54031-54033</p>
	<p>T-JUNCTION 80 x 80 VWY52261 100 x 80 VWY53271 100 x 100 VWY53261 125 x 80 VWY54275 125 x 100 VWY54271 125 x 125 VWY54261</p>	 <p>REDUCER 100 x 80 VWY53451 125 x 80 VWY54455 125 x 100 VWY54451</p>
	<p>PIPE C/W FLANGE 80NB VWY52371 100NB VWY53371</p>	 <p>PIPE COUPLING (3 Bolt) 80NB 3-3C (4 Bolt) 80NB 3-4C (3 Bolt) 100NB 4-3C (4 Bolt) 100NB 4-4C (3 Bolt) 125NB 5-3C (4 Bolt) 125NB 5-4C</p>
	<p>PIPE C/W FLANGE & BEND 80NB VWY52372 100NB VWY53372 100 x 80 VWY53381</p>	 <p>MOUNTING BRACKET 80NB VWY52435 100NB VWY53435 125NB VWY54435</p> <p>Galvanised angle and U-Bolt</p>
	<p>BRANCH C/W FLANGE & BEND 80 x 80 VWY52212 100 x 80 VWY53222 100 x 100 VWY53170 125 x 80 VWY54226 125 x 100 VWY54222</p>	<p>ASK OUR PROFESSIONAL ENGINEERS TO ADVISE ON MOST EFFICIENT SYSTEM. PIPE COMPONENTS FOR 150NB AND 200NB ARE SIMILAR AND AVAILABLE FOR LARGE SYSTEMS.</p>

STANDARD PIPE FITTINGS – SYSTEM BR. (80NB AND ABOVE)



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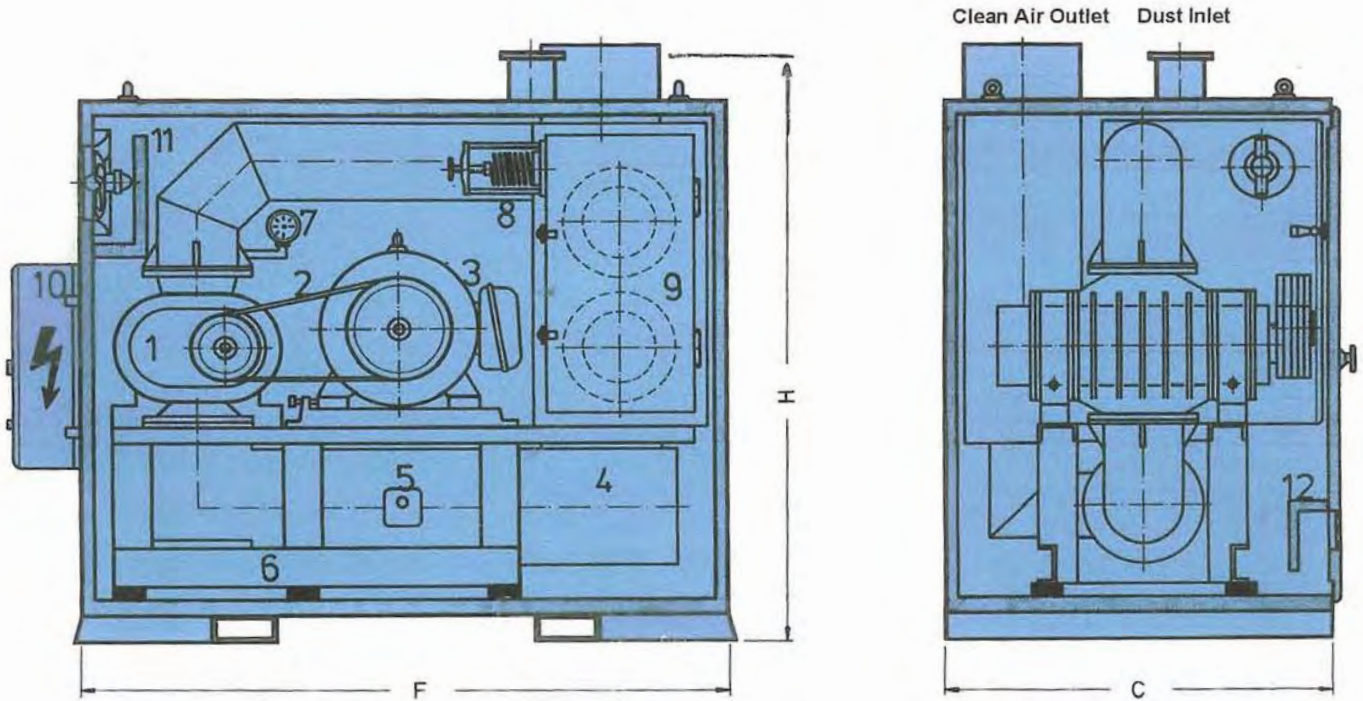
A.B.N. 63 103 035 687

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 Email: mecal@mecal.com.au

VACUUM SUCTION MACHINE

TYPE KS-CENTRAL



ASSEMBLY WITH NOISE DAMPENING ENCLOSURE.

TYPE		KS-200P	KS-300P	KS-370P	KS-550P/R	K750P/R	KS1500/R
DIMENSIONS	F	1400	1800	2300	2300	2300	2500
	IN	C	1100	1400	1500	1500	2250
	MM	H	1700	2100	2300	2300	2300

DIMENSIONS SUBJECT TO CHANGE

1. Vacuum Pump
2. Vee Belt
3. Main Motor
4. Exhaust Silencer
5. Exhaust Temp. Safety Unit
6. Base Frame

7. Vacuum Gauge
8. Relief Valve
9. Filter
10. Electronic Control Panel
11. Ventilating Fan
12. Noise Dampening Material

(VDO-01-001/0408)



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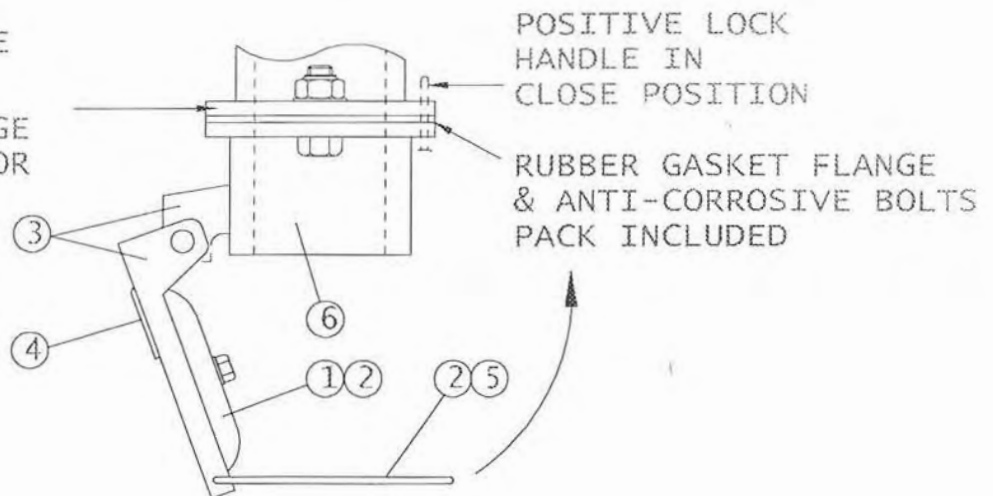
WHAT MAKES MECAL SUCTION SYSTEMS BETTER?

Higher Technology -

MECAL EXCLUSIVE SUCTION INLETS.

50 BSP FEMALE
FOR 50MM

4 BOLTS FLANGE
CONNECTION FOR
80 & 100MM



POSITIVE LOCK
HANDLE IN
CLOSE POSITION

RUBBER GASKET FLANGE
& ANTI-CORROSIVE BOLTS
PACK INCLUDED

IMPORTANT FEATURES

Which make Mecal Suction Inlets -

- Seal for Life
- Maintenance Free for Life

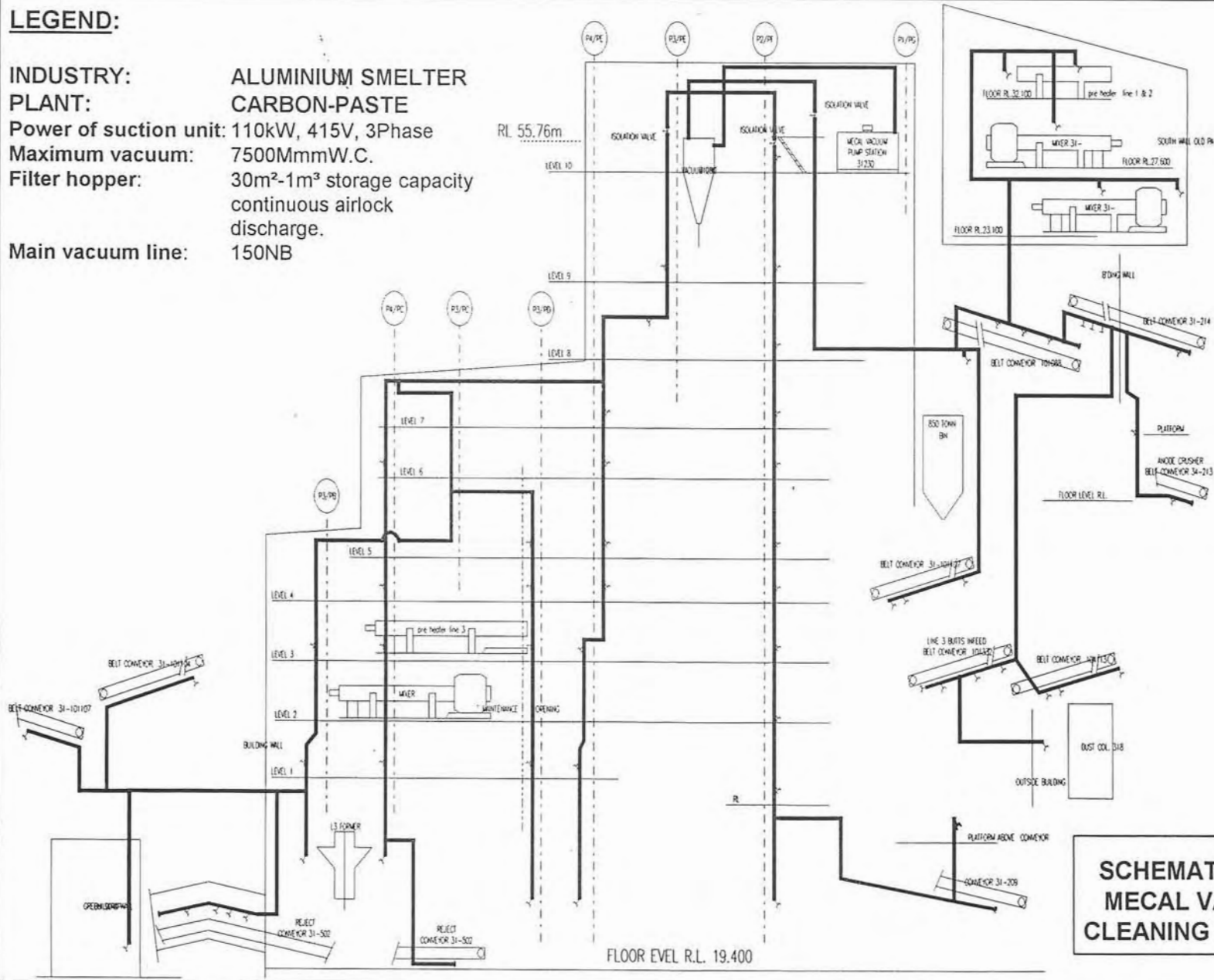
“Life” - Virtually for EVER!

1. Taper Cone Positive Seal.
2. Easy to open even against Mecal extra high vacuum.
3. Heavy duty corrosion proof casing & door.
4. Heavy steel closing spring - corrosion proof.
5. Opening and position lock handle.
6. Available in size 50mm (with 50 BSP Female), 80mm and 100mm.

(VWY-70-001/0110)

LEGEND:

INDUSTRY: ALUMINIUM SMELTER
PLANT: CARBON-PASTE
Power of suction unit: 110kW, 415V, 3Phase
Maximum vacuum: 7500MmmW.C.
Filter hopper: 30m²-1m³ storage capacity continuous airlock discharge.
Main vacuum line: 150NB



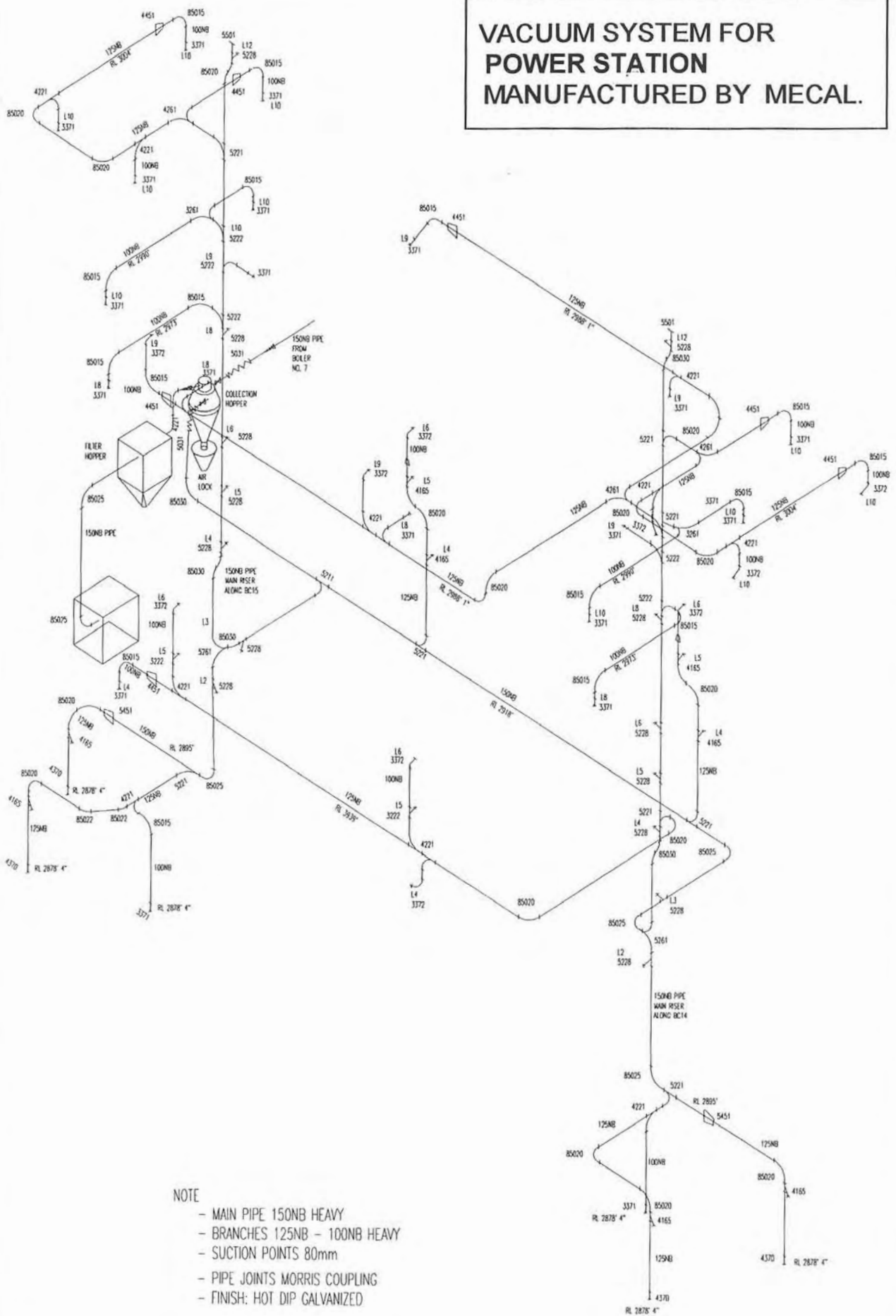
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VACUUM SYSTEM FOR POWER STATION MANUFACTURED BY MECAL.



- NOTE
- MAIN PIPE 150NB HEAVY
 - BRANCHES 125NB - 100NB HEAVY
 - SUCTION POINTS 80mm
 - PIPE JOINTS MORRIS COUPLING
 - FINISH: HOT DIP GALVANIZED

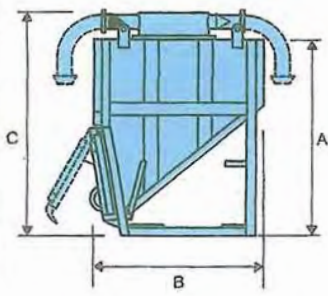
MECAL RANGE

OF

ACCESSORIES

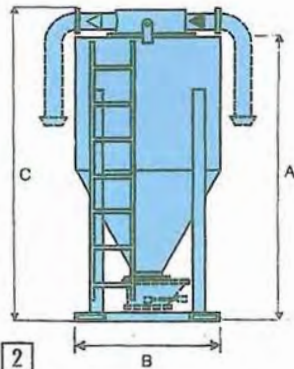
Portable and stationary intercept hoppers

Type VA with separator top, capacity 1-2 m³, transport by forklift or crane, front discharge.



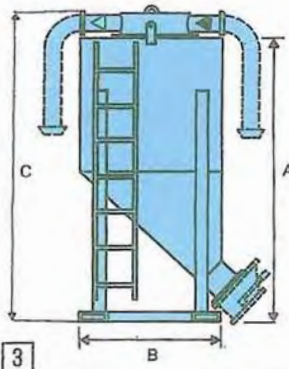
1

Type VER with separator top, capacity 1-2 m³, transport by forklift or crane, downward discharge.



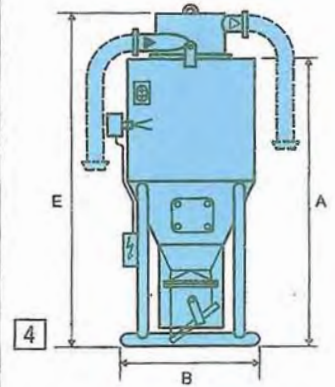
2

Type VEC with separator top, capacity 1 m³, transport by forklift or crane, side discharge.



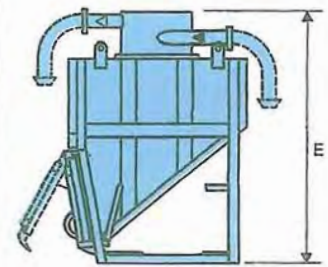
3

Type VT capacity 1 m³, suspended with loading boom for discharge onto conveyor belt or into open containers.



4

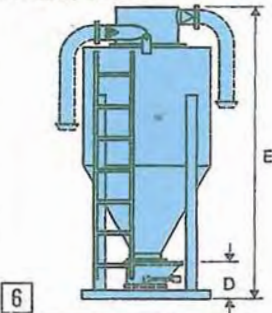
Type VA with cyclone separator for separation of fine dust.



5

	1 m ³	1.5 m ³	2 m ³
A	1442	1752	2072
B	1410	1410	1410
C	1691	2001	2321
E	1853	2145	2465

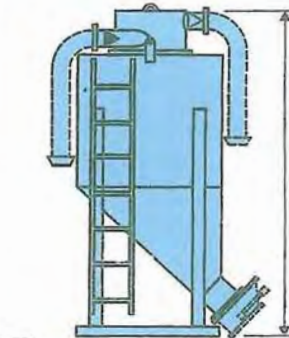
Type VER with cyclone separator for separation of fine dust.



6

	1 m ³	1.5 m ³	2 m ³	
Discharge device				
A	Slide gate	1960	2410	2890
	double dump gate/flap gate	2345	2795	3275
B	Slide gate	1200	1200	1200
	double dump gate/flap gate	1200	1200	1200
C	Slide gate	2180	2630	3110
	double dump gate/flap gate	2565	3015	3495
D	Slide gate	375		
	double dump gate/flap gate	760		
E	Slide gate	2350	2800	3280
	double dump gate/flap gate	2735	3185	3665

Type VEC with cyclone separator for separation of fine dust.



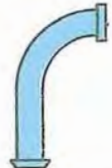
7

A	2345
B	1200
C	2565
E	2735

Battery operated filling level probe. Discharges automatically by gravity actuated flap gate.

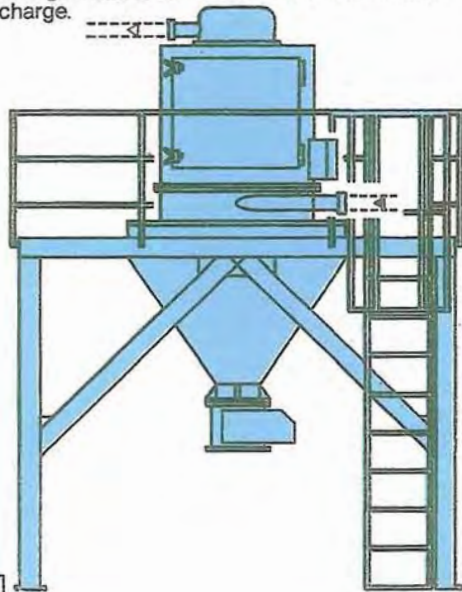
A	2600
B	1120
E	3000

Optional equipment for intercept hoppers types VA, VER, VEC: connection pipe 1 m long and 90° bend, flange and quick-coupling, system SK-V. Prevents bending of the flexible hose, dia. 80 to 150 mm.



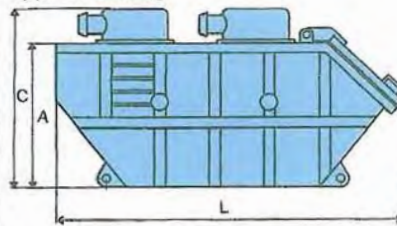
8

Type VF and VFP stationary intercept hoppers with integrated filters. Vertical discharge to recycle the collected material onto a belt conveyor, into containers or onto trucks. Discharge devices for continuous or intermittent discharge.



9

Type VM 7, skip hopper for transport and discharge by dumper loader truck. Weight approx. 2300 kg.

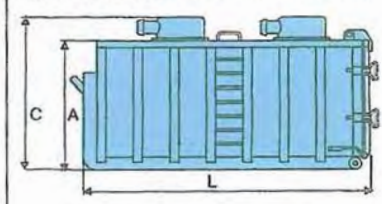


10

See separate data sheet for system specification.

A	1500	C	1950
B	1900	L	3600

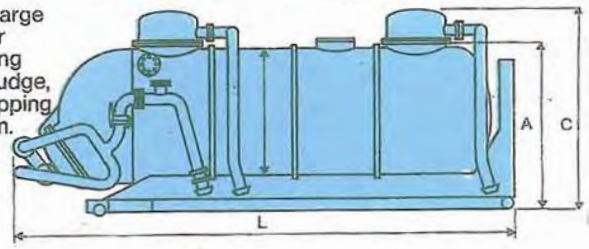
Type VR 12 roll-off container system. Transport and discharge by suitable truck. Large tailgate for discharge. Hopper also suitable for fixed installation on suitable truck chassis.



11

A	1900	C	2350
B	2480	L	4730

Hopper for pneumatic discharge of the collected material. For suction collection and blowing discharge of gravel, sand, sludge, bulk material. Mounted on tipping truck or roll-off frame system.



12

A	2200	C	2650
B	2500	L	6300

Subject to technical modifications.



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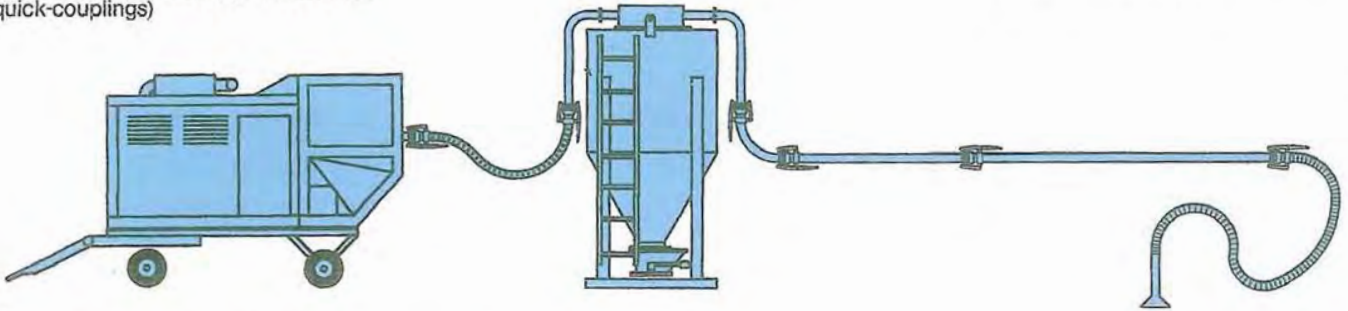
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Application of intercept hoppers

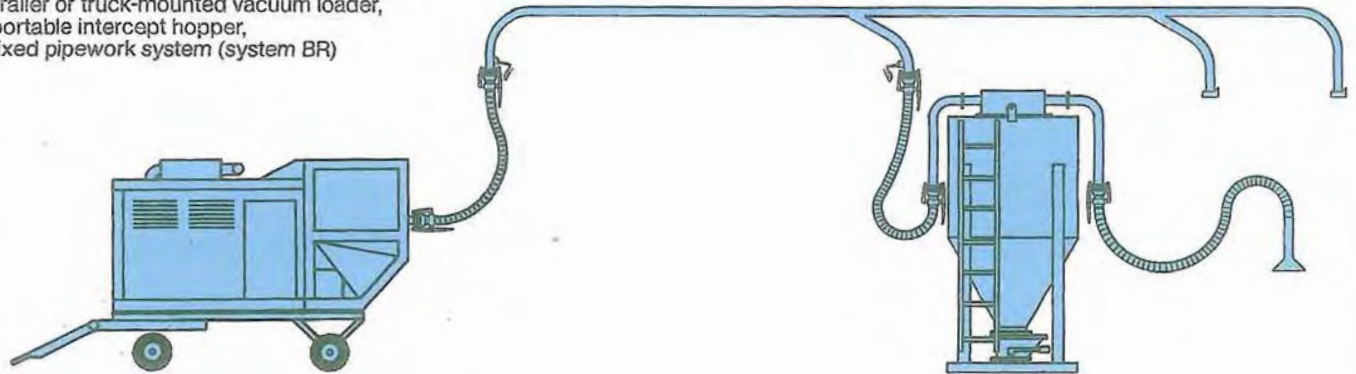
Trailer or truck-mounted vacuum loader,
portable intercept hopper (type VER),
portable piping set-up (system SK with
quick-couplings)

Choose the appropriate intercept hopper
for your requirements overleaf.



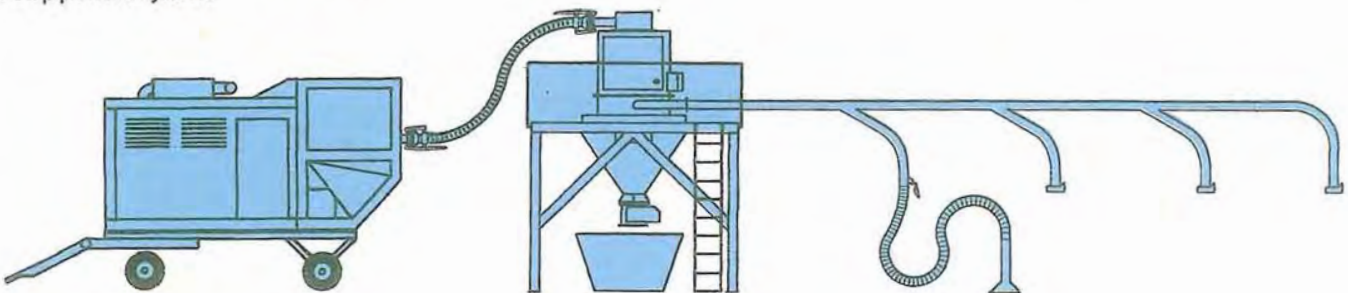
13 The portable solution

Trailer or truck-mounted vacuum loader,
portable intercept hopper,
fixed pipework system (system BR)



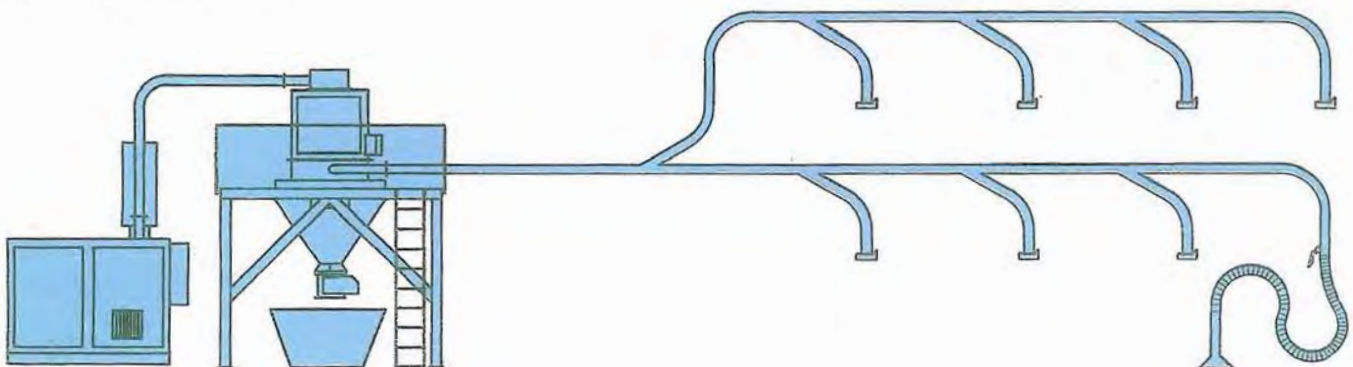
14 Portable units with fixed pipework system

Trailer or truck-mounted vacuum loader,
stationary filter/hopper (type VF or VFP),
fixed pipework system.



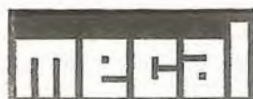
15 The semi-stationary solution

Central vacuum suction unit (type KS-CENTRAL)
stationary filter/hopper,
fixed pipework system,
suction inlets with automatic lid.



16 The fully stationary system



Subject to technical modifications.



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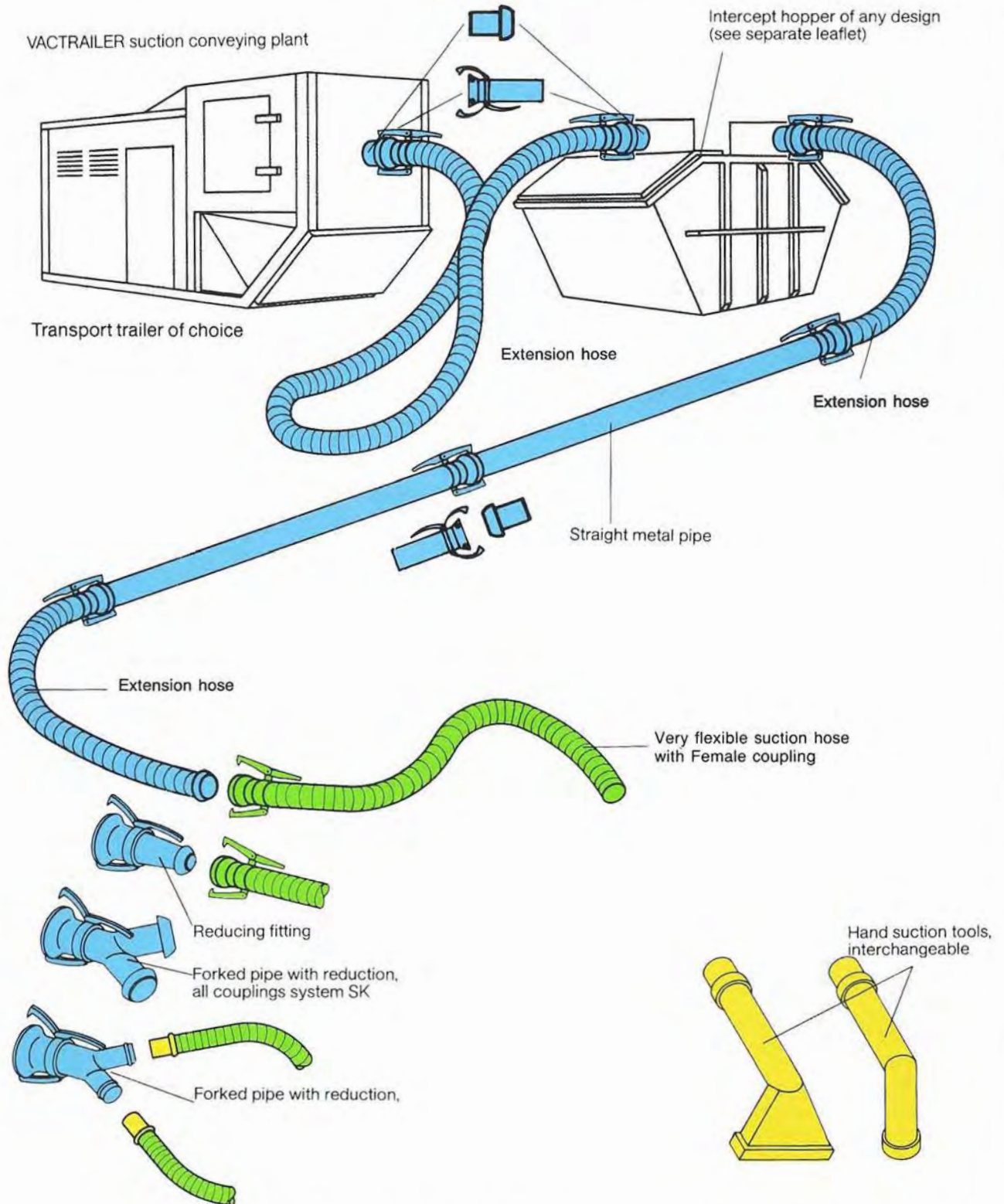
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Suction tools, system SK, DN 80, 100, 120, 150, 200 mm

Our suction tools, system SK, are available in DN 80/100/120/150/200 mm.
The Connection hoses are equipped with a  and  coupling.

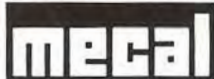
Male

Female



Suction hoses are fitted at one end with a female quick-action coupling and cuffed at the other end for attaching nozzles.

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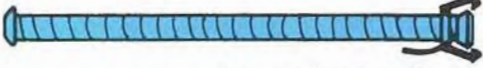

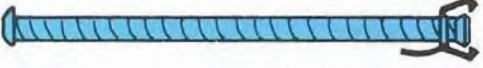
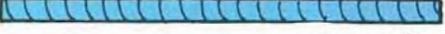
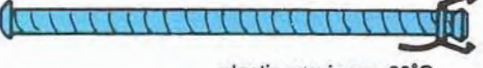
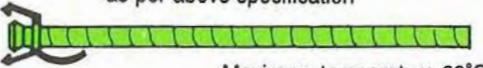

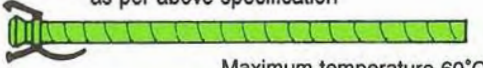
International

Phone: +61-3-9314-0144






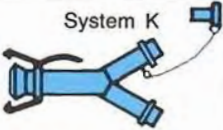
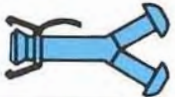





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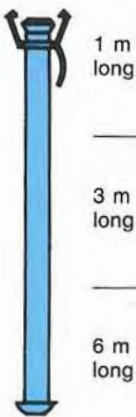




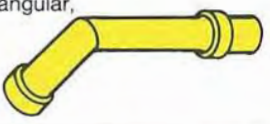
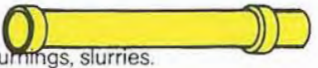
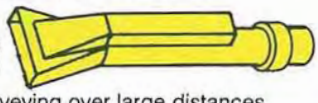

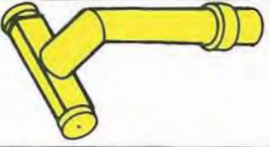
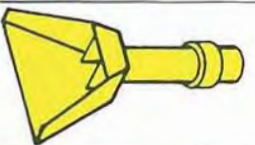
Suction tools, system SK, DN 80, 100, 120, 150, 200 mm

EXTENSION HOSES Standard length is 5m. Other lengths available upon request.		NOMINAL DIAMETER (mm)				
		080	100	120	150	200
Extension hoses, rubber with steel wire insert, 5m long, without couplings.  rubber maximum 85°C	Part No. ZHN-	85502	85503	85504	85505	85506
As above, but with Male and Female couplings.  rubber maximum 85°C	Part No. VHB-	50000	50100	50200	50300	50400
	Minimum Bend Radius	375mm	500mm	625mm	750mm	1000mm
	Weight/Metre	3.3kg	4.2kg	5.0kg	6.3kg	8.8kg
Kanaflex. Flexible and Anti Static, 5m long, without couplings.  Kanaflex maximum 60°C	Part No. ZHN-	80003	80005	80006	80007	80008
As above, but with Male and Female couplings.  Kanaflex maximum 60°C	Part No. VHB-	50005	50105	50205	50305	-
(Special high temperature maximum 100°C)	Minimum Bend Radius	210mm	330mm	405mm	675mm	-
	Weight/Metre	1.6kg	2.4kg	3.5kg	4.7kg	-
Plastic with rigid PVC insert, 5m long, without couplings — Heavy Duty.  plastic maximum 60°C	Part No. ZHN-	85282	85283	85284	85285	85286
As above, but with Male and Female couplings.  plastic maximum 60°C	Part No. VHB-	50010	50110	50210	50310	50410
	Minimum Bend Radius	225mm	295mm	450mm	575mm	950mm
	Weight/Metre	1.6kg	2.8kg	4.3kg	5.1kg	7.2kg
SUCTION HOSES Standard length is 5m. Other lengths available upon request.						
Kanaflex - Flexible and Anti Static as per above specification  Maximum temperature 60°C	Part No. VHB-	50025	50125	50225	50325	-
Rubber - Heavy Duty and Anti Static as per above specification  Maximum temperature 60°C	Part No. VHB-	50020	50120	50220	-	-
Plastic - Heavy Duty as per above specification  Maximum temperature 60°C	Part No. VHB-	50028	50128	50228	-	-

Suction tools, system SK, DN 80, 100, 120, 150, 200 mm

DESCRIPTION	Part No. VHB-	NOMINAL DIAMETER (mm)				
		080	100	120	150	200
<p>Coupling — Male, painted. For extension and suction hoses.</p> 	Part No. VHB-	50030	50130	50230	50330	—
<p>Coupling — Female, painted. For extension and suction hoses.</p> 	Part No. VHB-	50031	50131	50231	50331	—
<p>Coupling – Double Female</p> 	Length Part No. VHB-	600 mm 50032	600 mm 50132	600 mm 50232	600 mm 50332	— —
<p>End cap – Male, with handle.</p> 	Part No. VHB-	50033	50133	50233	50333	—
<p>End cap – Female, with handle.</p> 	Part No. VHB-	50034	50134	50234	50334	—
<p>Adaptor, steel, painted. To work at two different suction points.</p>  <p>System K</p>  <p>System SK</p>	Coupling Ø Part No. VHB-	1 x 80 mm M 2 x 50 mm K from system SK to system K 50035	1 x 100 mm M 2 x 60 mm K from system SK to system K 50135	1 x 120 mm M 2 x 60 mm K from system SK to system K 50235	— —	— —
	Coupling Ø Part No. VHB-	— —	— —	1 x 120 mm M 2 x 80 mm V system SK 50236	1 x 150 mm M 2 x 100 mm V system SK 50336	1 x 200 mm bandlock 2 x 120 mm V system SK 50436
<p>Reducer, steel, zinc coated. To reduce to the next smaller dia. of system SK.</p> 	Coupling Ø Part No. VHB-	— —	1 x 100 mm M 1 x 80 mm V 50137	1 x 120 mm M 1 x 100 mm V 50237	1 x 150 mm M 1 x 120 mm V 50337	1 x 200 mm bandlock 1 x 150 mm V 50437
<p>Reducing fitting, with Male coupling. To reduce from system SK to conical system K (see list of conical system K).</p> 	Coupling Ø Part No. VHB-	1 x 80 mm V 1 x 60 mm K 50038	1 x 100 mm V 1 x 60 mm K 50138	— —	— —	— —
<p>Reducing fitting, with Female coupling. To reduce from system SK to conical system K (see list of conical system K).</p> 	Coupling Ø Part No. VHB-	1 x 80 mm M 1 x 60 mm K 50039	1 x 100 mm M 1 x 60 mm K 50139	— —	— —	— —
<p>Hose connector with flange and Male coupling. To connect suction and extension hoses.</p> 	Part No. VHB-	50040	50140	50240	50340	—
<p>Hose connector with flange and Female coupling. To connect machines.</p> 	Part No. VHB-	50041	50141	50241	50341	—

Suction tools, system SK, DN 80, 100, 120, 150, 200 mm

DESCRIPTION	NOMINAL DIAMETER (mm)					
	080	100	120	150	200	
<p>Straight pipes, steel.</p> <p>For large distances between suction unit and intercept hopper or vice versa. Lower resistance than in flexible hose.</p> 	<p>1 m long</p> <p>Part No. VHB-</p>	50042	50142	50242	50342	-
<p>3 m long</p> <p>Part No. VHB-</p>	50043	50143	50243	50343	-	
<p>6 m long</p> <p>Part No. VHB-</p>	50044	50144	50244	50344	-	
<p>Pipe bend 90°, steel.</p> <p>To connect to suction unit and intercept hopper to prevent a buckling of the suction hose. Also used in the pipework system.</p> 	<p>Part No. VHB-</p>	50045	50145	50245	50345	-
<p>Pipe bend 45°, steel.</p> <p>Same as above</p> 	<p>Part No. VHB-</p>	50046	50146	50246	50346	-
<p>O-ring, rubber for Female couplings.</p> 	<p>Part No. VPP-</p>	85082	85102	85122	80152	-
<p>Ring type spray nozzle, steel, zinc coated, to moisten the material.</p> 	<p>Part No. VHB-</p>	-	50148	50248	50348	-
<p>Hand suction tube, angular, steel, zinc coated.</p> <p>For the removal of bulk material, turnings, slurries.</p> 	<p>Total length</p> <p>Part No. VHB-</p>	560 mm	560 mm	650 mm	650 mm	730 mm
<p>Hand suction tube, straight, steel, zinc coated.</p> <p>For the removal of bulk material, turnings, slurries.</p> 	<p>Total length</p> <p>Part No. VHB-</p>	1000 mm	1000 mm	1200 mm	1200 mm	1300 mm
<p>Fluidizing nozzle, steel, zinc coated.</p> <p>For the removal of large quantities of bulk material ensures a continuous conveying over large distances.</p> 	<p>Total length</p> <p>Opening of nozzle</p> <p>Part No. VHB-</p>	100 mm	1100 mm	1200 mm	1200 mm	1200 mm
<p>Hand suction tube, steel, zinc coated.</p> <p>For the removal of bulk material, turnings, slurries. Rectangular opening of nozzle.</p> 	<p>Total length</p> <p>Opening of nozzle</p> <p>Part No. VHB-</p>	1000 mm	1000 mm	1000 mm	-	-
<p>Floor cleaning nozzle, steel, zinc coated.</p> <p>350 mm wide, for wet and dry floor cleaning.</p> 	<p>Total length</p> <p>Opening of nozzle</p> <p>Part No. VHB-</p>	1000 mm	1000 mm	-	-	-
<p>Shovel tube, steel, zinc coated.</p> <p>For the removal of large quantities of bulk material.</p> 	<p>Total length</p> <p>VHB-Part No.</p>	-	-	-	700 mm	700 mm
		-	-	-	50355	50455

mecal

Suction tools
for industrial
Vacuum cleaners
40 to 60 mm hose
Brochure VHA-01-001



Atex

MECAL PTY LTD

9 Paramount Road
West Footscray
VIC 3012

AUSTRALIA

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Fax +613 9314 2576

info@mecal.com.au

www.mecal.com.au

Possible combinations of suction hoses and suction tools

1 Same diameter of suction hose and nozzle

Bowed pipe No. 3/DN 50 is connected directly to hose connector

Bowed pipe No. 3/DN 50



Hose connector DN 50



2 Different diameter of suction hose and nozzle

Suction hose of dia. 50 mm is connected with reducing fitting No. 31b/DN 50 to reduce from 50 mm to 40 mm. Then the bowed pipe No. 3/DN 40 can be used

Bowed pipe No. 3a/DN 40



Hose connector DN 50



Reducing fitting No. 31b
(to reduce from DN 50 to DN 40)

3 Coupling of two suction hoses of same diameter

For coupling two or more suction hoses together (for extension), the hose coupling No. 32 of same diameter is used

Hose coupling No. 32/DN 50






Hose connector DN 50

When ordering hoses or suction tools, please state code number and diameter.

Subject to alterations without prior notice!









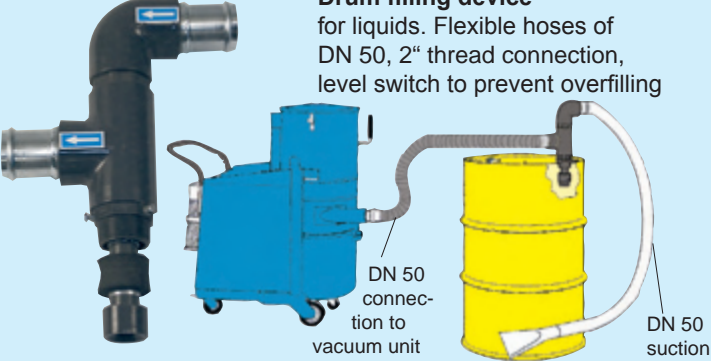
Suction tools conical system K, DN 30, 40, 50, 60 electrically conductive (meeting the B1 regulation)

Nominal diameter (mm)






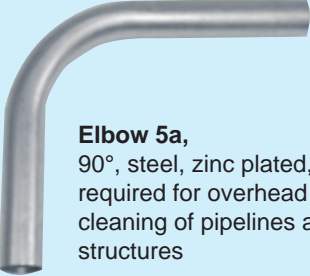


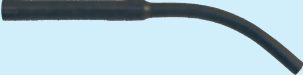



		30	40	50	60
 <p>KANAFLEX hose 5 m long, with connection pieces, very flexible, for suction work and as extension, electrically conductive, temperature range: 0°C to +85°C, colour: black</p>	Code No.				
	5 m	-		VHA50515	VHA50615
 <p>Universal rubber hose UG with connection pieces, for suction work and as extension, electrically conductive, temperature range: -20°C to +80°C, colour: green</p>	Code No.				
	5 m	-	712016	712017	712018
	10 m	-	712021	712024	712027
	15 m	-	-	712025	712028
	20 m	-	-	-	712029
 <p>Polyurethane hose 05PURE 5 m long, with connection pieces, highly resistant to abrasion, flexible, for suction work and as extension, electrically conductive, temperature range: -40°C to +90°C, colour: green</p>	Code No.				
	5 m	-	711104	711105	711106








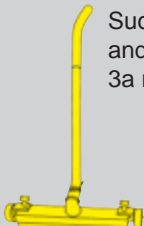


Suction tools conical system K, DN 30, 40, 50, 60
electrically conductive (meeting the B1 regulation)

Nominal diameter (mm)

		30	40	50	60	
	<p>Rubber hose TB with connection pieces, transformer oil resistant, for suction work and as extension, electrically conductive, temperature range: -20°C to +120°C, colour: blue</p>	<p>Code No. 5 m 10 m</p>	-	-	712007 712003	712008 712009
	<p>Metal hose 05M with connection pieces, heat resistant, for suction work and as extension, not suitable for liquids, electrically conductive, temperature range: up to +400°C, zinc plated</p>	<p>Code No. 5 m 10 m</p>	-	-	713007 713012	713008 713014
	<p>Elbow 11 90°, metal, zinc plated, rotation: 360°, to be inserted into the suction inlet of the vacuum unit, prevents buckling of the hose</p>	Code No.	-	-	714021	714022
	<p>Reducing fitting 30a necessary when using suction hoses of a smaller diameter than the suction inlet of the vacuum unit, for suction inlet of vacuum unit</p>	Code No.	-	-	716000 DN 50/DN 40	716001 DN 60/DN 50
	<p>Connection piece for hoses without connection piece</p>	Code No.	-	716014	716015	716016
	<p>Reducing fitting 31b necessary when using accessories of a smaller diameter than the flexible hose</p>	Code No.	-	716002 DN 40/DN 30	716003 DN 50/DN 40	716004 DN 60/DN 50
	<p>Reducing fitting 38 with air regulation, necessary when working with units of 5.5 kW and more</p>	Code No.	-	716005 DN 40/DN 30	716006 DN 50/DN 40	-
	<p>Hose coupling 32 for extension of flexible hoses</p>	Code No.	-	716011	716012	716013
 <p>2" thread connection</p> <p>DN 50 connection to vacuum unit</p> <p>DN 50 suction inlet</p>	<p>Drum filling device for liquids. Flexible hoses of DN 50, 2" thread connection, level switch to prevent overfilling</p>	Code No.	-	-	717036	-


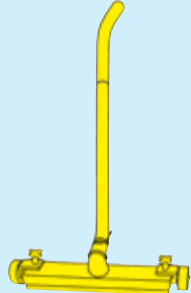





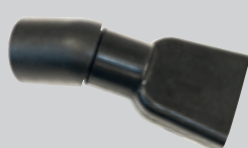
Suction tools conical system K, DN 30, 40, 50, 60
electrically conductive (meeting the B1 regulation)

		Nominal diameter (mm)				
		30	40	50	60	
	Suction tube 1b approx. 1 m long, aluminium	Code No.	-	714031	714032	714033
	Suction tube 2b approx. 0.5 m long, aluminium	Code No.	-	714034	714035	714036
	Suction tube 1c approx. 1 m long, steel, zinc plated	Code No.	-	714007	714008	714009
	Suction tube 2c approx. 0.5 m long, steel, zinc plated	Code No.	-	714017	714018	714019
	Suction/blowing nozzle for the cleaning of blind holes, with suction tube 50 mm, connection for compressed air, 5 blowing nozzles, compressed air valve	Code No.	-	-	715049	-
	Fluidizing nozzle 39 steel, zinc plated, for the removal of bulk material and accumulations of dust	Code No.	-	-	-	715062
	Rubber nozzle 29 150 mm long, for machine cleaning	Code No.	-	-	715066	-
	Elbow 5a, 90°, steel, zinc plated, required for overhead cleaning of pipelines and structures	Code No.	-	714025	-	-
	Round nozzle 3 30°, plastic	Code No.	715000	715001	715002	-
	Round nozzle 3a 30°, steel, zinc plated, suction and connection of other nozzles	Code No.	-	715005	715006	715007
	Suction nozzle 4 plastic, in two parts, for machine cleaning not suitable for zones 0, 1 or 2	Code No.	715008	715009	-	-
	Suction nozzle 4a one part, steel, zinc plated, for machine cleaning	Code No.	-	715015	-	-
	Flat nozzle 6 plastic, for narrow grooves of machines not suitable for zones 0, 1 or 2	Code No.	-	715017	715018	715160
		Opening of nozzle	-	12x65 mm ²	18x90 mm ²	18x90 mm ²
	Flat nozzle 6a metal, zinc plated, for cleaning of narrow spaces on machines and radiators	Code No.	-	715020	715021	715022
		Opening of nozzle	-	15x60 mm ²	15x80 mm ²	15x90 mm ²

Suction tools conical system K, DN 30, 40, 50, 60 electrically conductive (meeting the B1 regulation)		Nominal diameter (mm)				
		30	40	50	60	
	Triangular nozzle 7c straight, aluminium casting, with steel rail, painted, for vacuum extraction of dirt, turnings and bulk material	Code No.	-	715027	715028	715029
		Opening of nozzle	-	110x30 mm ²	110x30 mm ²	110x30 mm ²
	Triangular nozzle 7 aluminium casting, with steel rail, painted, for vacuum extraction of dirt	Code No.	-	715023	-	-
		Opening of nozzle	-	150x15 mm ²	-	-
	Triangular nozzle 7a angular, aluminium casting, painted, with steel scraper, for scraping off and vacuum extraction of sticky dirt	Code No.	-	715024	-	-
		Opening of nozzle	-	150x15 mm ²	-	-
	Triangular nozzle 7b angular, aluminium casting, painted, with rubber lips, for removal of liquids and sludge	Code No.	-	715025	-	-
		Opening of nozzle	-	150x15 mm ²	-	-
	Triangular nozzle 7g angular, aluminium casting, painted, with brush insert, for cleaning of cushions, inside-cleaning of cars	Code No.	-	715026	-	-
		Opening of nozzle	-	150x15 mm ²	-	-
	Triangular nozzle 7d angular, aluminium casting, painted, with steel rail, for removal of dirt and chips	Code No.	-	715030	715031	715032
		Opening of nozzle	-	300x28 mm ²	300x28 mm ²	300x28 mm ²
	Triangular nozzle 7e angular, aluminium casting, painted, with rubber lips, for removal of liquids and sludge	Code No.	-	715033	715034	715035
		Opening of nozzle	-	300x28 mm ²	300x28 mm ²	300x28 mm ²
  	Floor cleaning nozzle 500 L suitable for units up to 3.6 kW, width 500 mm, aluminium casting, rubber lips on both sides, swivel elbow and clamp lock, height-adjustable wheels Brush inserts for dry material we recommend inserts instead of rubber lips	Code No.	-	-	715075	-
		Code No.	-	-	715076	-

Suction tools conical system K, DN 30, 40, 50, 60
electrically conductive (meeting the B1 regulation)

Nominal diameter (mm)

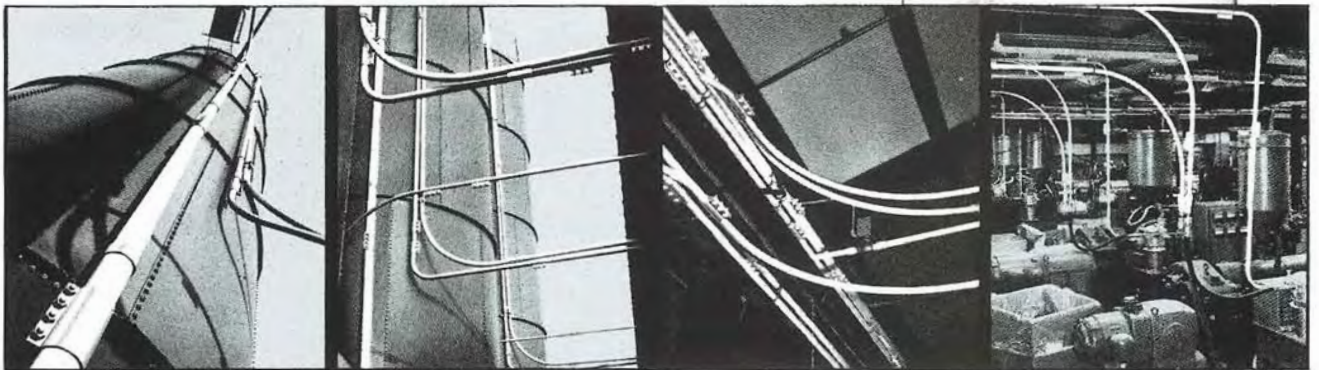
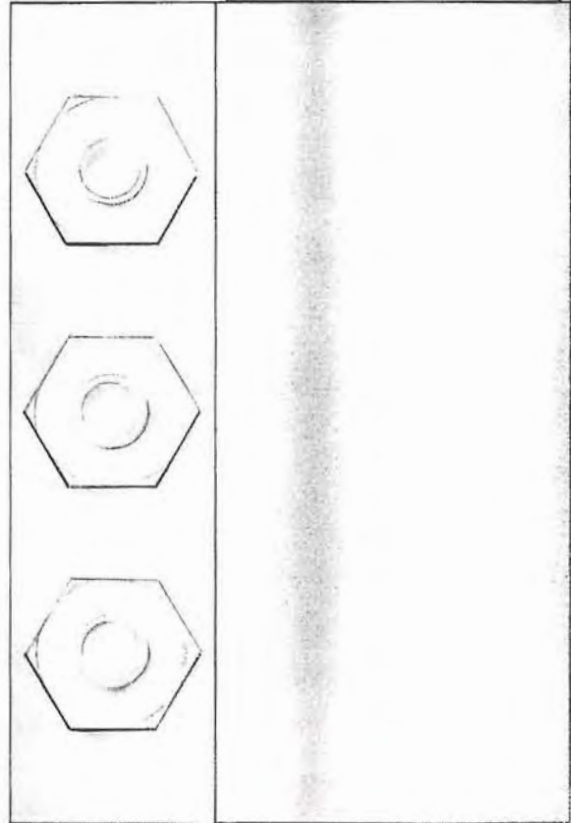
		30	40	50	60
 <p>Suction tube 1c and round nozzle 3a required</p>	<p>Floor cleaning nozzle 300 S width 300 mm, aluminium casting, suitable for units up to 22 kW, rubber lips on both sides, swivel elbow and clamp lock, height adjustable wheels</p>	-	-	715136	715137
	 <p>Floor cleaning nozzle 500 S width 500 mm, aluminium casting, suitable for units up to 22 kW, rubber lips on both sides, swivel elbow and clamp lock, height adjustable wheels</p>	-	-	715139	715140
 <p>Brush 8 370 mm wide, angular</p> <p>for removal of dry dust from walls and floors</p>	Code No.	-	-	715040	-
 <p>Brush 8 250 mm wide, angular</p>	Code No.	-	715039	-	-
 <p>Brush 12a 120° section, for pipelines up to 250 mm Ø, for overhead cleaning of pipes</p>	Code No.	-	715043	-	-
 <p>Brush 10 round Ø 100 mm and Ø 120 mm, angular, for cleaning of floors, machines, ceilings, windows, columns and beams</p>	Code No. DN 100 DN 120	- -	715041 -	- 715042	- -
 <p>Universal rubber brush 16 for removal of dust and fly, cleaning of looms and other machinery</p>	Code No.	-	716059	-	-
 <p>Flat nozzle 6b plastic, for machine cleaning, suction opening: 90 x 15 mm</p>	Code No.	-	-	715070	-



MORRIS

COMPRESSION COUPLINGS
AND SIGHT GLASSES

FOR
PNEUMATIC CONVEYING
AND OTHER PIPING SYSTEMS



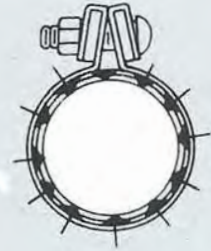


MORRIS COMPRESSION COUPLINGS

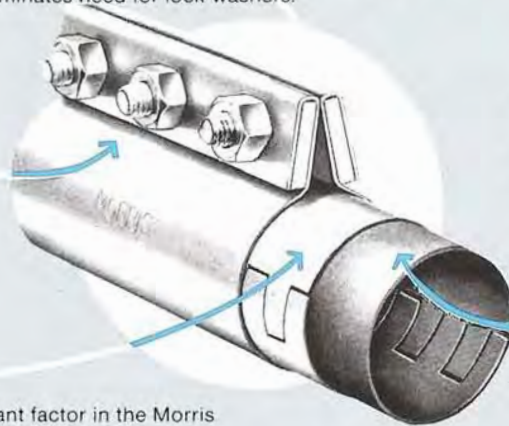
The ONLY Couplings which are economically available to connect (or repair) threaded or unthreaded pipe or tubing of any size from 1/2" through 36". This includes millimeter sizes and even a rare one-of-a-kind O.D. tubing size. Available in a variety of materials.

EXCLUSIVE MORRIS DESIGN FEATURES

OUTER SHELL AND BAR WASHER — The unique Morris design of these integrated parts . . . fully related to the inner liner and gasket . . . attains the exclusive equalized pressure seal which makes Morris the preferred Coupling. Outer Shell is corrosion-resistant electrogalvanized cold rolled steel . . . stainless steel, aluminium and other metals available. The rugged bar washer is electroplated steel. The compression principle assures an even positive seal . . . eliminates need for lock washers.



NUTS AND BOLTS — Coupling comes ready to slip with electroplated nuts and bolts in place ready to be tightened with a single socket wrench



EQUALISED COMPRESSION PRINCIPLE — As bolts are tightened the heavy bar washers draw in the outer sleeve applying equal pressure to the entire surface area of the inner sleeve and gasket. Under this equal compression the gasket teeth "flow" together to assure a leakproof seal. Will not damage or distort thin-wall pipe or tubing.

INNER SLEEVE

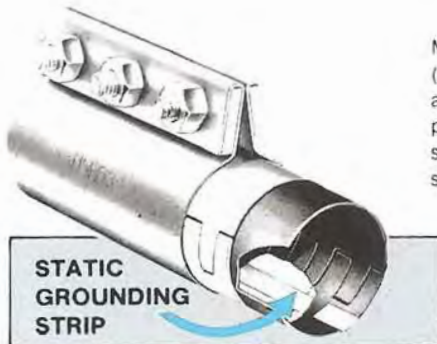
The precision die-cut teeth are a significant factor in the Morris design-principle of applying equal pressure to the entire pipe circumference to attain complete seal plus extra rigidity . . . no sag in unsupported pipe or tubing. Standard sleeve is electrogalvanized cold rolled steel, but like outer shell is available in other metals to meet individual requirements.

GASKET — Precision die-cut tooth design assures low or high pressure seal for both gaseous and liquid materials. Black neoprene is standard gasket, but rubber, white neoprene, asbestos and other gasket materials are available. Aluminium or stainless steel static conducting strips are available with any type gasket.

FASTER • EASIER • SURER — ONE MAN • ONE WRENCH • ONE MINUTE

Morris Couplings reduce original installation costs because application is so fast and easy as illustrated lower right. You get additional savings because the original cost of Morris Couplings is substantially less than any others

For major repairs, merely cut out bad section of pipe or tubing, repair with new section and join with Morris Couplings.



STATIC GROUNDING STRIP

Morris Couplings with static conducting (grounding) strips are enthusiastically and widely accepted for use in pneumatic conveying systems. The strips provide positive conduction of static across joints to the system ground . . . at **no extra cost and without special gaskets.**



20 SECONDS

Clean scale, burrs, dirt or grease from joint areas and slide coupling over end of one pipe.



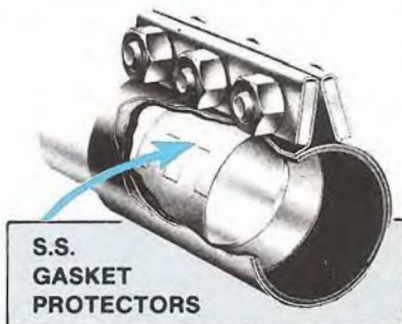
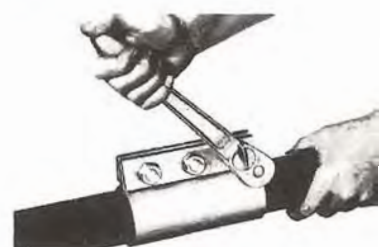
40 SECONDS

Bring other pipe into butt position and slide coupling back to center over joint



ONE MINUTE

Tighten bolts evenly until ends of flanges butt. This automatically attains adequate bolt torque for a safe, sure, equal compression seal



S.S. GASKET PROTECTORS

Stainless Steel Gasket Protectors are available for Morris Couplings. They cost pennies . . . save dollars by preventing gasket wear and line contamination. When gaps occur at tube joints, these Protectors prevent gasket wear caused by abrasive materials or by the action of a vacuum system

FOR SPECIFICATIONS AND PRICES . . . REQUEST CATALOGUE



MORRIS QUICKON II COUPLERS®

Featuring NEW Positive Locking System.
OPEN/CLOSE WITHOUT TOOLS...IN SECONDS

FOR PNEUMATIC OR VACUUM CONVEYING SYSTEMS

Sizes: 1½" O.D. thru 13" O.D. in standard 4" lengths

MORRIS QUICKON II COUPLERS can be installed or removed with a twist of the wrist. No tools or special skills needed. The positive locking system turns easily to seal or to compensate for normal O.D. pipe or tubing tolerances.

This in-line Coupler is ideal for use where: Fast takedown and reassembly of lines is essential, reduced coupler weight is desirable, a line or system is frequently modified, wrap around installation is necessary, and where pressure does not exceed 50 psi.

FEATURES AND ADVANTAGES

1. Super fast installation and takedown by anyone no tools
2. One piece construction no loose pieces
3. No special pipe preparation required.
4. Adjusting screw and thick gasket assure positive seal and even compression over entire joint will not damage thin wall tubing.
5. Stays closed in spite of expansion, contraction or vibration
6. Convenient easily loosened and slipped along the pipe section and secured during takedown.
7. Exceptionally light weight a 4" O.D. Quickon weight 1½ lbs. compared to 3½ lbs. for a 4" O.D. standard Morris Coupling



STAINLESS
STEEL

SLIDE ON



PATENTED

TIGHTEN



OR WRAP AROUND



Dual QUICKON II
COUPLER

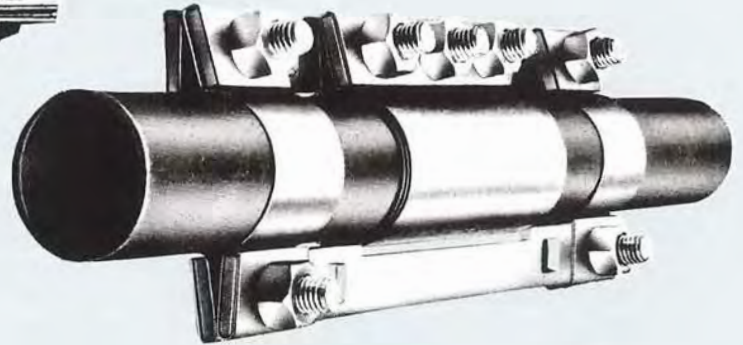
For larger sizes... 4" thru 18" dia... 9½" coupling width provides substantial tube support and greatly increased sealing surface.



STAINLESS
STEEL



MORRIS "In-Line" Sight Glasses give you a clear look at the material flowing through your conveying lines. Turbulence is eliminated by the "straight through" interior design. A permanently attached ground strip prevents static electricity build-up by providing a positive contact across the sight glass. Ideal for fast and simple line installation with Morris couplings. Available in a variety of materials, most popular construction is clear acrylic center section with aluminium steel or stainless steel tube or pipe ends.



Side-Band Compression Couplings

Greatly improved holding power plus a positive compression seal!

Unique design of Morris Side-Band compression couplings gives you vastly improved axial force holding power to connect or repair threaded or unthreaded pipe and tubing. Dual locking side bands grip the pipes and allow higher operating pressures than those normally suggested for standard Morris compression couplings. Especially effective where line vibration is a problem, and on plastic pipe.

You get all the positive sealing advantages of the Morris compression coupling in a coupling that can hold its own in fighting end pull.

Available for 1½" through 24" nominal pipe or tubing sizes — including millimeter sizes. Static grounding strips or stainless steel gasket protectors also available.

Important facts about

MORRIS COMPRESSION COUPLINGS

CONDENSED TABLE OF COUPLING SPECIFICATIONS

Nominal Sizes (includes)	½ — ¾	1 — 2¼	3 — 7¼	8 — 36
Lengths (inches)	2	4,6,8	4,6,8,10,12	6,8,10,12,16
Number Bolts	2	2,3,4	2,3,4,5,6	2,3,4,5,6
Bolt Sizes (inches)	⅜ x 1¼	½ x 1¾	⅝ x 2	¾ x 3
Shell Thickness (inches)	.052	.052	.062	.062
Sleeve Thickness (inches)	.052	.052	.052	.062
Gasket Thickness (inches)	.062	.062 & .093	.093 & .125	.125, ⅜ & ¼

MAXIMUM 'UNRESTRAINED' PRESSURE

Standard Model	40 psi	260 kpa
Side - Band Model	50 psi	330 kpa

MAXIMUM OPERATING PRESSURES FOR STANDARD COUPLINGS

O.D. Size (inches)	1½	2	2½	3	3½	4	4½	5	5½	6	6½	8	10
Hydrostatic (psi)	900	600	450	475	450	420	350	325	290	250	200	230	175

The above data was obtained from tests using 3 bolt couplings with standard neoprene gaskets. Test pipe ends were restrained.

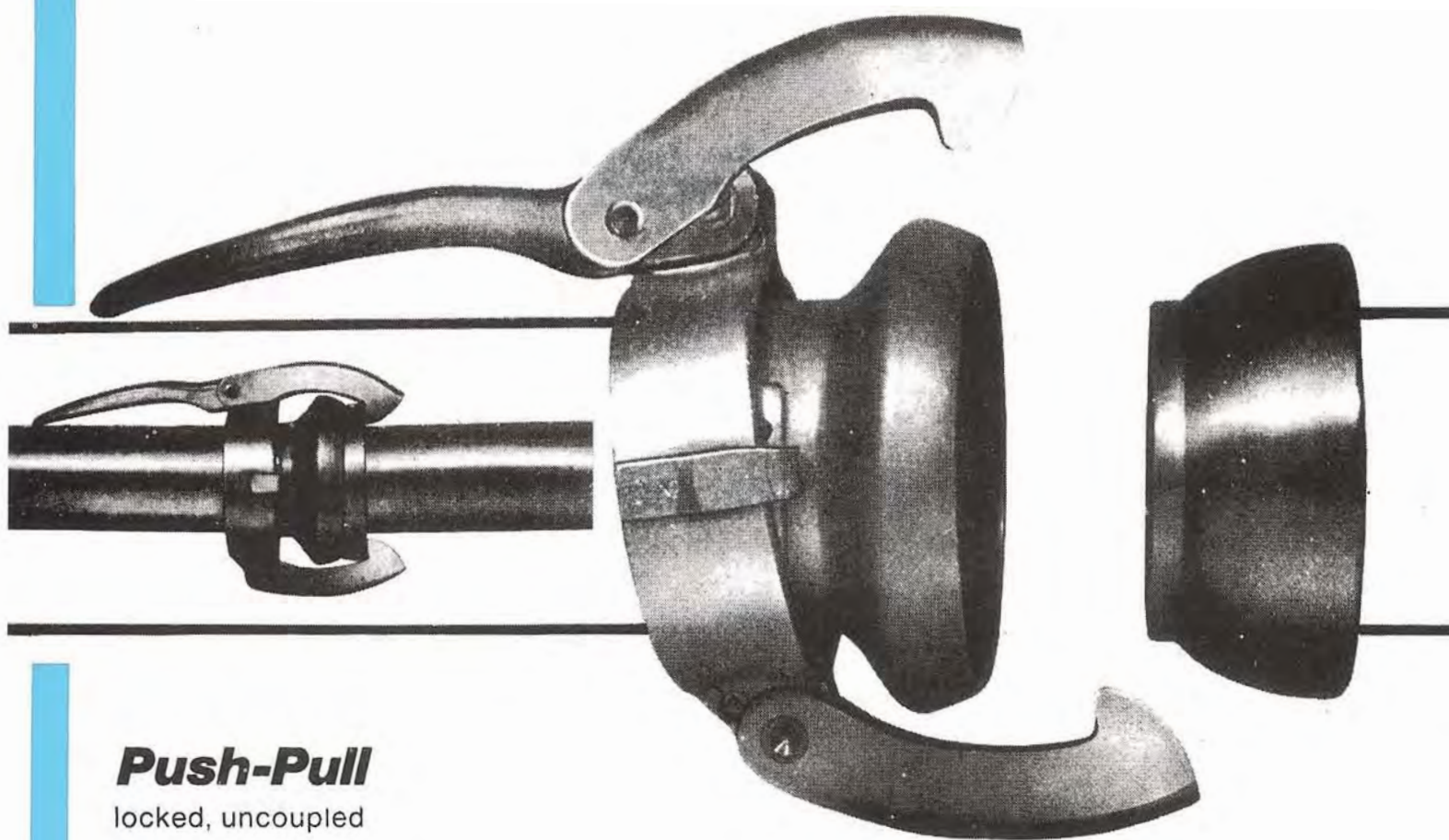


A.B.N. 88 004 322 650

MECAL PTY. LTD.
9 Paramount Road, (P.O. Box 4140)
West Footscray, Vic., 3012
Australia

Phone: (03) 9314 0144

Fax: (03) 9314 2576



Push-Pull

locked, uncoupled

Super Refined-Steel Coupling

the fastest Quick-coupling for aggressive and sensitive liquid substances. For welding to steel pipes.

A Hand-movement suffices

to join the 2 Perrot refined-steel Quick-couplings tightly together. Just another hand-flick and they are released. This can be done once, twice, thousands of times. The operation is always equally simple, equally fast and always provides a connection equally reliable, suction-fast, and pressure fast, as well as having an all-round flexibility. Tools are not required just a hand. Even an unskilled hand cannot go wrong.

Here's why this coupling is so valuable: It's fast, there are no problems, has proved itself a million times over and, by use of refined steel, immune to aggressive liquid substances.

The connection is instant

for filling and draining, for transferring for pumping and drawing-off an almost uncountable number of liquids and paste-like substances and specially suitable for every sort of aggressive medium.

Draining, Filling and Transport Problems solved

in the chemical industry, in chemical preparation processes, in the plastics-preparation industry, in the foodstuffs industry, in the machinery industry for special purposes, especially in cases where aggressive media have to be transported.

All rights to technical alteration reserved!

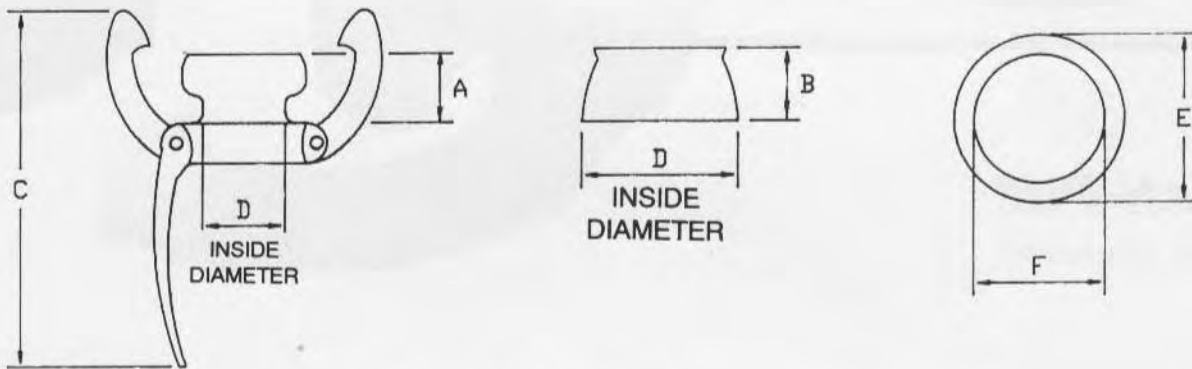
P
errot

(VPP-01-001 /95)

Technical Details

Male and Female Coupling is made of V 4 A-steel.
 The Lever on the Female Coupling is made of galvanised steel.
 Stainless Steel units are available upon request.

- Sealing:** Rubber seal-ring
- Pressure;** 15 atmospheres operating pressure
- Flexibility:** Junction has 15° all-round angular-ability.
- Sizes available:** Ø: 80, 100, 120, 150, 200mm (Other sizes upon request).



PERROT COUPLING

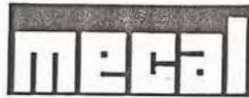
PART NO.	DESCRIPTION	SIZE	A	B	C	D	E	F
VPP80080	80mm Male	80		50		89		
VPP80081	80mm Female	80	70		285	89		
VPP85082	Gasket	80					142	110
VPP80100	100mm Male	100		50		108		
VPP80101	100mm Female	100	81		300	108		
VPP85102	Gasket	100					160	127
VPP80120	120mm Male	120		50		133		
VPP80121	120mm Female	120	90		280	133		
VPP85122	Gasket	120					188	143
VPP80150	150mm Male	150		58		159		
VPP80151	150mm Female	150	90		275	159		
VPP85152	Gasket	100					230	185
VPP80200	200mm Male	200		75		216		
VPP80201	200mm Female	200	107		350	216		
VPP85202	Gasket	200					305	250



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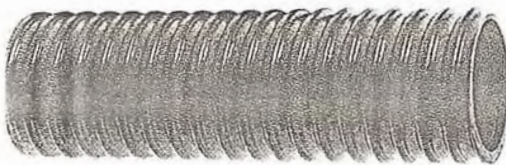
KAR



A.B.N. 63 103 035 687

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KAR – INDUS AR HOSE

A LIGHT AND EXTREMELY FLEXIBLE ABRASION RESISTANT ANTI-STATIC RUBBER VACUUM HOSE DESIGNED TO WITHSTAND SEVERE CONDITIONS IN HANDLING ABRASIVE MATERIALS

- FEATURES:**
- SPECIAL CONDUCTIVE POLYMER WHICH DISSIPATES STATIC ELECTRICITY WITHOUT A GROUNDING WIRE
 - LIGHT WEIGHT, VERY FLEXIBLE AND ROBUST CONSTRUCTION PROVIDING EASE OF HANDLING IN WORKPLACE CONDITIONS

- APPLICATIONS:**
- LOW PRESSURE GRAVITY FEED CHUTES OR VACUUM CONVEYORS IN MANUFACTURING PLANTS AND CONSTRUCTION SITES
 - SUCTION CONVEYANCE OF SLURRY, CEMENT, GRAVEL, IRON ORE AND GRAINS

								
mm	mm	mm	Kg/mt	Bar	PSI	%	mm	m
38.0	47.0		0.49	2.0	30	100	20	20
50.6	60.6		0.72	1.5	23	100	30	20
62.4	74.8		1.05	1.5	23	100	50	20
76.4	90.0		1.44	1.0	15	100	60	20
101.6	117.6		2.32	1.0	15	100	80	20
125.9	145.1		3.22	1.0	15	100	120	20
152.4	173.6		4.55	1.0	15	100	180	20

TEMPERATURE:	-15°C / +60°C
STANDARDS:	ISO 1307
SAFETY FACTOR:	4:1



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 9 Paramount Road (P.O. Box 4140)
 West Footscray 3012
 Melbourne, AUSTRALIA

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Website: www.mecal.com.au

Email: mecal@mecal.com.au

VACUUM CLEANING SYSTEMS

<u>COMPANY</u>	<u>STATE</u>	<u>EQUIP.</u>	<u>KW</u>	<u>INDUSTRY</u>	<u>APPLICATION</u>
Adelaide Brighton Cement - Angaston	SA	220P	22	Cement	Limestone/Cement
- Klein Point	SA	300P	30	Cement	
Australian Cement Ltd - Kandos	NSW	S-5 E	37	Cement	Limestone/Cement
Alcoa of Australia - Bunbury	WA	S-4 D	33	Aluminium	Ship unloading Alumina
Alcoa of Australia - Wagerup	WA	S-550R	55	Aluminium	Alumina
		KS-300P	30		Refinery
		S-4 D	33		
		AP-75R	7.5		
Allied Plant Hire - Wollongong & Newcastle	NSW	S-4 D	33	Contractor	Various
Altona Petrochemical - Altona	VIC	S'Fine	5.6	Chemical	Sludge & Dust
Atlas Steel - Altona	VIC	S'Fine	5.6	Steel	Graphite from concrete floor
Australian Newsprint Mills	TAS	Ultimat	5.6	Paper	Pulp
Ballarat School Mines - Ballarat	VIC	IS-30	2.2	School	Brickmaking Dept.
Barry Bros. - Melbourne	VIC	S-4 D	33	Contractor	Various
BHP - Rod & Bar Division - Newcastle	NSW	S'Fine	5.6	Steel	Scale
BHP - Wire Products - Geelong	VIC	S'Fine (2)	5.6	Steel	General Cleaning
BHP - Whyalla	SA	AP-75R	7.5	Steel	Ore Dust
Boral Besser - Blacktown	NSW	S-3/30	30	Brick	Chips & Dust
Boral Calsil - Prospect	NSW	KS-220P	22	Brick	Cement Chips
Boral Gypsum Products - Port Melbourne	VIC	220P	22	Plaster	Gypsum
Boral Masonry - Wacol	QLD	S-3/30	30	Bricks	Cement Chips
Boyne Island Smelter - Gladstone	QLD	KS - 550R (2)	55	Aluminium	Carbon & Alumina
		KS - 300P (2)	30		
Brisbane City Council - Upper Mt Gravatt	QLD	MAXVAC CENTRAL	30	Public Transport	Bus Cleaning
Broken Hill Hire	NSW	S-3A	18.5	Hire	
Cable Sands - Bunbury	WA	S-3 A	18.5	Mine	Mineral Sands
Cockburn Cement - Coogee	WA	550R	55	Cement	Cement/Lime
Collex - Mornington	TAS	S-5 D	48	Contractor	Various
Comalco Aluminium - Bell Bay	TAS	S-5 D (2)	48	Aluminium	Alumina
		S'Fine II 5.6			
Delta Electricity - Wallerawang	NSW	KS-750P	75	Power Station	Coal
Dept of Marine & Harbours	SA	Ultimat 5.6		Ship/Boat	Sand & Grit Blast Recovery
Dept of Road Transport - Morgan	SA	S'Fine S'Fine II	5.6	Ship/Boat	Grit Blast Recovery
Dept of Territories & Local Government	ACT	Ultimat 5.6			Fly Ash
Flinders Power - Pt Augusta	SA	KS - 550R	55	Power Station	Coal
Ford Motor Company	VIC	KS-750R	75	Automobile	Foundry

<u>COMPANY</u>	<u>STATE</u>	<u>EQUIP.</u>	<u>KW</u>	<u>INDUSTRY</u>	<u>APPLICATION</u>
Gardner Perrott	AUST & N.Z.	VTR 1600P VTR 1100RS S-5 C S-5 D (4) S-3 A	250 174 48 40 18.5	Contractor	Various
Geelong Cement Ltd	VIC	S-4 E	30	Cement	Limestone/Cement
Goliath Cement	TAS	VTR 5-5C	48	Cement	Limestone/Cement
Gordon Inst. Technology - Geelong	VIC	AP-75R	7.5	School	Brick/Cement & lumps
Government Aircraft Corp.	VIC	Ultimat	5.6	Manufacturer	Machine Cleaning
Hammersley Iron	WA	S'Fine AP-75R	5.6 7.5	Mine	Iron Ore
Hawker De Havilland - Bankstown	NSW	220P	22	Manufacturer	Machine Cleaning Aluminium Chips
Holden Engine Company - Port Melbourne	VIC	KS - 320 P KS - 370 P MaxVac	22 37 11	Automobile	Foundry Machine Shops
Hydroblast - Geelong	VIC	S-5 D	40	Contractor	Various
ICI Plastics - Laverton	VIC	KS-185	18.5		Granular Plastic
Iluka - Geraldton	WA	KS-370	37	Mine	Mineral Sands
Intercast & Forge - Wingfield	SA	KS-550R	55	Foundry	Sand
Johnson & Johnson	NSW	AP-75TS	7.5	Pharmaceutical	Dust to Lumps
Johns Valves - Ballarat	VIC	S-3 A	18.5	Foundry	Sand
Kelcar Material Management	VIC	VTR-1100RS VTR-750RS	110 75	Contractor	Portland Alum.
Kerman Contracting	WA			Mine	
Kiwi Co-Op Dairies	NZ	AP-75R (3) S'Fine	7.5 5.6	Dairy	Milk Powder
McQuarrie Generation - Bayswater Power Station	NSW	KS-750P	75	Power Station	Coal
Melcann - Clyde North Geelong	NSW VIC	S-4 E S-3 A	30 18.5	Cement	
Metro Water Authority - Perth	WA	S'Fine	5.6		Sludge & Dust
MGR Industries - Mordialloc	VIC	Ultimat	5.6	Contractor	Various
Mitsubishi Foundry - Lonsdale	SA	S-4 E	30	Automobile	Sand Conveying & Plant Cleaning
MTM Steel Fabricators - Launceston	TAS	Ultimat	5.6	Manufacturer	Steel Shot
Norton Abrasives	NSW	AP-75R Ultimat	7.5 5.6	Abrasives	Sand
Olex Cables - Sunshine	VIC	Ultimat	5.6	Wire	Machine Cleaning
Olympic Dam Operations	SA	S-5 E	37	Mine	Copper
Orica - Yarwun	QLD	S'Fine II	5.6	Chemical	
Pacific Power - Mt Piper Power Station	NSW	KS - 750 RS	110	Power Station	Coal
Penrice Soda Products - Osborne	SA	220 P	22	Chemical	
Pics Industrial Services	AUST	CV750 P S-4 D (4) S-5 D (3) S-5 D (3) VTR 1100P	75 33 40 48 121	Contractor	Various
Portland Aluminium Ltd	VIC	KS - 550R (2)	55	Aluminium	Carbon
Queensland Electricity Commission - Gladstone	QLD	750PE (2)	75	Power Station	Coal
Queensland Fertiliser - Townsville	QLD	Pipe System		Fertiliser	Port
Queensland Glass - Brisbane	QLD	AP-75R S'Fine II	7.5	Glass	Glass & Sand
Ramset - Croydon	VIC	S'Fine	5.6	Manufacturer	Metal Chips & Sludge
Ridley Agriproducts - Tamworth	NSW	IS-55	5.5	Grain	

<u>COMPANY</u>	<u>STATE</u>	<u>EQUIP.</u>	<u>KW</u>	<u>INDUSTRY</u>	<u>APPLICATION</u>
Rocla Pavers & Masonary - Ottoway	SA	KS-185P	18.5	Brick	Stones
S & B Blasting - Geelong	VIC	S-5 D	48	Contractor	Various
		USL-1100RS	154		
		Ultimat	5.6		
Sanitarium - Moorooka	QLD	MaxVac	11.0	Grain	Grain
SEC of VIC - Morwell	VIC	AP-75R	7.5	Power	Coal Dust
- Loy Yang		S'Fine	5.6	Station	
Seafab - Karatha	WA	S'Fine II	5.6	Manufacturer	Shot Blast
Search Equipment - Welshpool	WA	S'Fine	5.6		
Silcar - Burnie	TAS	S-5 E	37	Paper	Furnace Cleaning
		AP-75R	7.5		
Simcoa Pty Ltd - Australia	WA	MaxVac	11.0	Refinery	Silica
Southern Pacific Tyres - Thomastown	VIC	MaxVac	11.0	Rubber	Calendar
Stanwell Corporation	QLD	VA-2 Hopper		Power Station	Coal
Steamit - Gladstone	QLD	750RS	75	Contractor	Various
Sugar Australia - Eagle Farm	QLD	Ultimat	5.6	Sugar	Boiler Tube
Tasprotect - Hobart	TAS	S-5D (3)48		Contractor	Various
Thompson, Kelly & Lewis - Castlemaine	VIC	S'Fine II	5.6	Manufacturer	
Tiwest Joint Venture	WA	S-5 E	37	Mine	Mineral Sands
Tomago Aluminium	NSW	220-P	22	Aluminium	Alumina, Bath
Townsville Transport Services	QLD	S'Fine	5.6		Truck Cleaning
Trident Consolidated - Launceston	TAS	S-5 D	48	Contractor	Various
		S-Fine II	5.6		
TRW Products Ltd - Marrickville	NSW	MaxVac	11.0	Automobile	Machining Chips
Tubemakers Foundry - Milperra	NSW	S-3 A	18.5	Foundry	Hot Core Sand from castings
Tyco - Currumbin	QLD	S-3 A	18.5	Foundry Sand,	Dust to Lumps
Western Power - Muja	WA	S'Fine (2)	5.6	Power	Coal Dust
		S-5 D	48	Station	
Westfi - Bunbury	WA	KS - 550R	55	Timber	Wood Chips
VAW - Kurri Kurri	NSW	VTR-300P	30	Aluminium	Coke, Alumina Smelter
Westralian Sands - Capel	WA	KS - 550R	55	Mine	Mineral Sand
Worsley Aluminium - Worsley	WA	CV 750 RS	75	Aluminium	Alumina
		KS-220P	22		

BAHRAIN

Bechtel Alba Aluminium

CHINA

Fang Cheng Grain IS-35 4 Grain

MALAYSIA

Malaysian Smelting Corp Butterworth S-3A 11.5 Tin Smelter Dust
Sabah Flour & Feed Labuan Grain Ship Unloading
(Accessories only)

NEW ZEALAND

New Zealand Aluminium Invercargill IS-40 4 Aluminium Alumina
Smelters

PHILIPPINES

APO Cement Cebu KS-370P 37 Cement Jetty
VTR-550P 55 Cement Cement Mill
Raw Mill
Packing Plant

TAIWAN.

Taiwan Power Corporation

Taichung

Pipe System

Power

Coal
Station

D = Diesel Powered.

KS = 'In-Plant' Pipe System.

R = -80Kpa Vacuum Pressure.



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Email: mecal@mecal.com.au

VACUUM CLEANING SYSTEMS – SHORT QUESTIONNAIRE

DATE:

COMPANY: PHONE:

CONTACT: FAX:

Area to be cleaned:

Product: Bulk Density:

Lumps - Max Size: Approx. %:

Mostly Fine: % of fine < 10 microns

..... % of fine < 2 microns (1/1000mm)

Damp, wet or liquid? Sticky?

Very abrasive? Electrostatic?

Dangerous to Health Explosive?

Amount of product to be collected: Tonnes/Hour/Day/Week

Longest Run Approximately:

Horizontal Distance: Metre

Vertical Distance above ground level: Metre

Vertical Distance below ground level: Metre

Number of Operators at one time:

Planned method of disposal of collected material: eg. Waste Bin, Silo, etc.

Drive Preferred: Electric: Diesel:



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MAGNETIC SEPARATORS



Removal of Tramp Metal

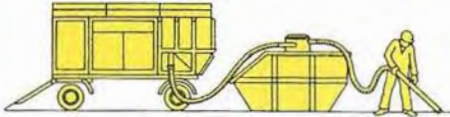
LIFTING MAGNETS



Scrap, Coils, Bundles, & Sheets

VACUUM CLEANERS

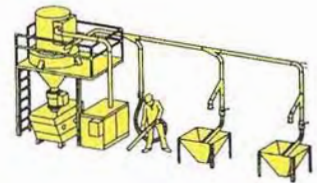
VacTrailer



VacTruck



Central Vac



NO DUST LOADING CHUTES

Automatically controls dust & product loss when loading open & closed trucks, ships, rail wagons & stockpiles.



MECAL-JET DUST SUPPRESSION SYSTEMS



For crushers, screens, railwagons, hoppers, stockpiles & shiploaders.

BELT CLEANERS & SCRAPERS

*Prevent build up on Conveyors
Reduces product loss*



WHITTINGTON SPIRAL DRUMS



Self cleaning - Self tracking

INDUSTRIES MECAL SERVES

Mecal Products and Services

	Mining and Quarrying	Food Industry	Textile Waste Wool Processor	Chemical Fertiliser	Timber & Paper Industry	Foundries	Plastics	Brick Making	Sugar Industry	Cement Manufacturing	Glass Works	Steel: Manufacture Warehouse Recycle Scrap	Power Stations
Vacuum Cleaners Large mobile units and fixed systems that provide the highest vacuum and statutory emission requirements. Suitable for wet and dry applications	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓		✓
Magnetic Separators Permanent or electro magnets for removal or tramp metal for equipment protection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
Lifting Magnets Lifting magnets for scrap steel, plate or coils, complete warehouse handling systems etc.						✓						✓	
Telescopic Loading Chutes For filling bulk materials into drums, trucks, ready mix vehicles, road and rail tankers, stockpiles, ship loading etc	✓	✓		✓	✓	✓		✓	✓	✓	✓		✓
Dust Control Spray suppression systems for controlling dust at crushers, screens, rail wagons, hoppers, stockpiles and ship loaders etc	✓									✓			✓
Conveyor Belt Cleaners To prevent build up of material on conveyor belts.	✓	✓		✓		✓	✓	✓	✓	✓	✓		✓
Spiral Conveyor Drums Self cleaning and self tracking.	✓	✓		✓	✓	✓		✓	✓	✓	✓		✓