

STANDARD DUTY HAND CHAIN HOISTS

SIZES 5RBS3, 10RBS3 and 20RBS3

3 Metre (9.84 ft.) Maximum Hook-To-Hook Length

SIZES 5RBS5, 10RBS5 and 20RBS5

5 Metre (16.4 ft.) Maximum Hook-To-Hook Length

WARNING

THESE HOISTS ARE NOT TO BE USED FOR LIFTING OR LOWERING PEOPLE

SAFE OPERATING PRACTICES

1. Always make certain the load is within the rated capacity of the Hoist. Overloading can cause failure of some load-carrying part, or result in damage causing future failure with a load at less than the rated capacity.
2. When lifting a load, always use a sling or grab made specially for that purpose. Never wrap the load chain around the load and do not bring the load in contact with the Hoist.
3. Stand clear of all loads and avoid moving a load over the heads of other personnel. Warn personnel of your intention to move a load in their area.
4. Keep the Lower Hook Assembly overhead when not in use, but never leave a load suspended in the air when the Hoist is unattended.
5. Do not lower the hook to the point where the load chain becomes taut between the Loadwheel and the slack end anchor bolt.
6. **WARNING:** These Hoists are designed for manual operation. Never adapt them to any source of power operation. Doing so may result in structural damage and/or premature wear.

METRIC TOOLS MUST BE USED FOR MAINTENANCE OF THESE HOISTS

HOW TO ORDER

Order all repair parts for your Ingersoll-Rand Tool by the **NAME** and **NUMBER** shown in the Repair Part List section. **Never** use the illustration numbers which appear in the first column.

For prompt service and genuine Ingersoll-Rand parts, place orders with the nearest Ingersoll-Rand Branch Office or Authorized Distributor.

Notice: The use of other than genuine Ingersoll-Rand replacement parts may result in decreased tool performance and increased maintenance, and may, at the Company's option, invalidate all warranties.

FOR ADDITIONAL REPAIR SERVICE INFORMATION, REQUEST FORM S6384 SERVICE BULLETIN.

Refer All Communications to the Nearest
Ingersoll-Rand Branch Office or Distributor.

© Ingersoll-Rand Company 1977

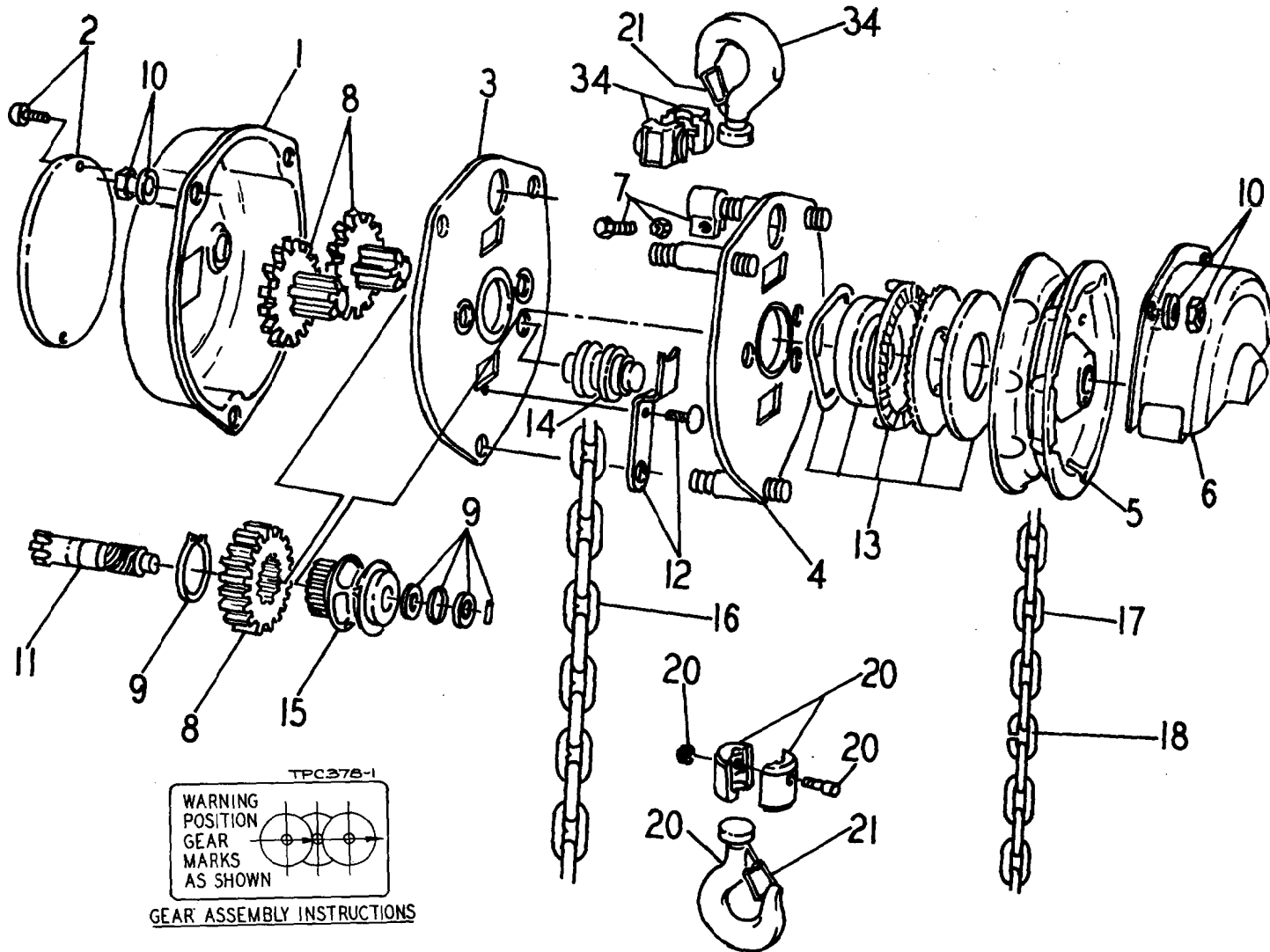
Printed in U.S.A.



Ingersoll-Rand

P
A
R
T
S

B
U
L
L
E
T
I
N



Standard Duty Hand Chain Hoist

REPAIR PART LIST

ILLUS. NUMBER (Do not use for ordering)	PART NAME FOR ORDERING	PART NUMBER FOR ORDERING	ILLUS. NUMBER (Do not use for ordering)	PART NAME FOR ORDERING	PART NUMBER FOR ORDERING
1	Gear Cover		+ 12	Chain Stripper with Screw	
	for 5RBS3 and 5RBS5	5RBS-FS1		for 5RBS3 and 5RBS5	5RBS-FS12
	for 10RBS3 and 10RBS5	10RBS-FS1		for 10RBS3 and 10RBS5	10RBS-FS12
2	for 20RBS3 and 20RBS5	20RBS-FS1	+ 13	for 20RBS3 and 20RBS5	20RBS-FS12
	Nameplate Kit			Brake Set	
	for 5RBS3 and 5RBS5	5RBS-A301		for 5RBS and 10RBS	5RBS-FS13
+ 3	for 10RBS3 and 10RBS5	10RBS-A301	+ 14	for 20RBS	20RBS-FS13
	for 20RBS3 and 20RBS5	20RBS-A301		Load Chain Guide	
	Gear Side Plate			for 5RBS3 and 5RBS5	5RBS-FS14
+ 4	for 5RBS3 and 5RBS5	5RBS-FS3	+ 15	for 10RBS3 and 10RBS5	10RBS-FS14
	for 10RBS3 and 10RBS5	10RBS-FS3		for 20RBS3 and 20RBS5	20RBS-FS14
	for 20RBS3 and 20RBS5	20RBS-FS3		Loadwheel	
+ 5	Handwheel Side Plate		16	for 5RBS3 and 5RBS5	5RBS-FS15
	for 5RBS3 and 5RBS5	5RBS-FS4		for 10RBS3 and 10RBS5	10RBS-FS15
	for 10RBS3 and 10RBS5	10RBS-FS4		for 20RBS3 and 20RBS5	20RBS-FS15
+ 6	for 20RBS3 and 20RBS5	20RBS-FS4	17	Load Chain	
	Handwheel			for 5RBS3	5RBS3-FS16
	for 5RBS3, 5RBS5, 10RBS3 and 10RBS5	5RBS-FS5		for 5RBS5	5RBS5-FS16
6	for 20RBS3 and 20RBS5	20RBS-FS5	18	for 10RBS3	10RBS3-FS16
	Handwheel Cover			for 10RBS5	10RBS5-FS16
	for 5RBS3 and 5RBS5	5RBS-FS6		for 20RBS3	20RBS3-FS16
+ 7	for 10RBS3 and 10RBS5	10RBS-FS6	20	for 20RBS5	20RBS5-FS16
	for 20RBS3 and 20RBS5	20RBS-FS6		Hand Chain	
	Loose End Set			for 3 metre hook-to-hook	5RBS3-FS17
+ 8	for 5RBS3 and 5RBS5	5RBS-FS7	21	for 5 metre hook-to-hook	5RBS5-FS17
	for 10RBS3 and 10RBS5	10RBS-FS7		Hand Chain Connecting Link	5RBH-Y25
	for 20RBS3 and 20RBS5	20RBS-FS7		Bottom Hook Assembly	
+ 9	Gear Set		+ 34	for 5RBS3 and 5RBS5	5RBS-FS20
	for 5RBS3 and 5RBS5	5RBS-FS8		for 10RBS3 and 10RBS5	10RBS-FS20
	for 10RBS3 and 10RBS5	10RBS-FS8		for 20RBS3 and 20RBS5	20RBS-FS20
10	for 20RBS3 and 20RBS5	20RBS-FS8	* Safety Label	Latch	
	Handwheel Shaft and Pinion Hardware Set			for 5RBS3 and 5RBS5	5RBS-FS21
	for 5RBS3 and 5RBS5	5RBS-FS9		for 10RBS3 and 10RBS5	10RBS-FS21
+ 11	for 10RBS3 and 10RBS5	10RBS-FS9	+ 34	for 20RBS3 and 20RBS5	20RBS-FS21
	for 20RBS3 and 20RBS5	20RBS-FS9		Top Hook Assembly	
	Cover Hardware Set			for 5RBS3 and 5RBS5	5RBS-FS34
+ 11	for 5RBS3, 5RBS5, 10RBS3 and 10RBS5	5RBS-FS10	* Safety Label	for 10RBS3 and 10RBS5	10RBS-FS34
	for 20RBS3 and 20RBS5	20RBS-FS10		for 20RBS3 and 20RBS5	20RBS-FS34
	Pinion Shaft				5RBS-598
+ 11	for 5RBS3 and 5RBS5	5RBS-FS11			
	for 10RBS3 and 10RBS5	10RBS-FS11			
	for 20RBS3 and 20RBS5	20RBS-FS11			

+ It is advisable to order an appropriate set of hardware covered by Illustration No. 9 with each of these assemblies since the shape of the fasteners is usually distorted during disassembly.

* Not illustrated.

INSTALLATION

Before installing the Hoist, examine it thoroughly to make certain that it was not damaged during shipment.

After mounting and before placing in service, check the Hoist for proper operation. On Hoists having a bottom hook block, make certain that all strands of chain are straight with no twist as a result of having the hook block flipped through the chain loop. **WARNING:** Make certain the load chain feeds **between** the Loadwheel (15) and the Load Chain Guide (14) and seats properly in the pocket wheel by running the hook up and down a reasonable distance without a load. The chain should run freely with no snagging or binding.

Always rig the Hoist to lift in a straight line from hook to hook, and make certain the Hoist is always free to swivel on the upper hook. Under no condition should the frame or hanger be allowed to bear against any support as this could cause bending of the hook or frame and damage the unit.

Make certain the member from which the Hoist is suspended is completely seated in the saddle of the hook.

OPERATION

When preparing to lift or move a load, make certain the load is completely seated in the saddle of the hook. Avoid eccentric loading of any kind, especially loading on the point of the hook.

When lifting, raise the load just enough to clear the floor and then check to make certain the brake will hold the load. Continue the lift only after you are certain the load is free of all obstructions.

LUBRICATION

Lubricate load chain with a light coat of penetrating oil and graphite. Be sure the lubricant reaches the bearing surface between the links. Remove excess oil from the chain.

The brake on these Hoists is a wet type wherein the friction lining is impregnated with General Motors Automatic Transmission Fluid Dexron®. A small hole is provided in the center of the handwheel for relubricating the lining. When hand chain pull becomes excessive, lubricate the brake through the hole in the center of the handwheel with approximately 1.5 cc of Dexron. Open and close the brake with the handwheel while adding the fluid. The brake should then be left in the open position for about one hour to allow the fluid to soak into the lining. Then again operate the brake several times before putting the Hoist back into service.

CAUTION: Excessive lubrication or not allowing fluid to soak into the lining may result in erratic brake operation when lowering a load.

These Hoists normally require no additional lubrication except when the unit has been disassembled for cleaning or repairs.

If chain pull should increase significantly, it may be greatly reduced by relubricating hoist bearings. When this is done, use Dow Corning Corp. Molykote BR-2-S grease after thoroughly cleaning the old grease from the parts. At the same time, lubricate these parts as well:

- Ratchet Spring
- Gear Train
- Bearings
- Handwheel Thread
- Roller Guide
- Pinion Shaft Stem
- Ratchet Teeth and Lugs
- Upper and Lower Hook Seats
- Bore of Loadwheel
- Screw Brake Plate - Stepped Face

MAINTENANCE

Initiating a regular inspection procedure is recommended to replace worn or damaged parts before they become unsafe. The inspection should include:

MONTHLY

1. Brake mechanism for evidence of slippage or abnormal operation.
2. Load chain for lubricant, damaged links or foreign material, particularly at inter-link contacting points.
3. Hooks for damage, cracks, twists, latch engagement and latch operation. Examine the bolt attaching the hook to the load chain.
4. Tightness of frame studs and nuts.

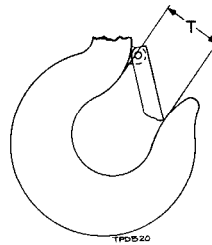
YEARLY

1. Load chain for wear.

Hook

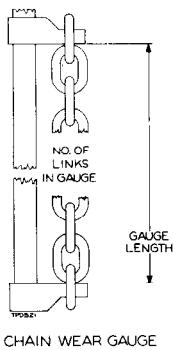
Periodically, examine the hook for wear. Excessive throat opening indicates abuse or overloading. At the same time, inspect other load sustaining components of the unit for damage. Make certain the latch is not damaged or bent.

Hoist Size	Replace Hook When "T" Opening is Greater than:	
	in.	mm
5RBS	1 1/16	27.0
10RBS	1 7/16	36.5
20RBS	1 5/8	41.3



Load Chain

Visually inspect the load chain for cleanliness and lubrication as well as wear or other damage, such as nicks and gouges. To determine if the chain should be replaced, check gauge lengths as shown below. Chain should be clean, free of twists and pulled taut before measuring.



Hoist Size	Dia. of Chain Stock in.	No. of Links To Gauge	Maximum Gauge Length Allowable Used Chain	
			in.	mm
5RBS	.197	11	7	177.8
10RBS	.250	11	8 7/8	225.4
20RBS	.354	11	12 1/2	317.5
Hand Chain	.213	15	14 13/16	376.3

Load chain has a hard long-wearing surface. We urge extreme caution when cutting as the link may fly when cut.

Hand Chain

Visually inspect hand chain the same as load chain and use the chart above for gauging.

Care must be taken to assure that there is no twist in the hand chain loop.

HOOK-ON TROLLEY FOR MODELS 5RBS AND 10RBS

Models 5RBS and 10RBS with rated capacity of 500 and 1000 kg (1100 lb and 2200 lb) can be attached to a Hook-On Trolley by means of the Top Hook, for operation on 5 to 12" I-Beams having flanges 3.00" (76 mm) to 5" (127 mm) wide. **WARNING: The Trolley must not be used on the 20RBS Models.**

PART NAME FOR ORDERING (Parts indented after an item are included with that item)	PART NUMBER FOR ORDERING
Hook-on Trolley.....	10RBH-A690
Nut (2).....	D01-341A
Spacer (28).....	D01-442-1/6
Lock Washer (4).....	D01-692
Bolt (2).....	D01-694-8
Nut (4).....	DU-562
Bracket (2).....	MR20-430
Trolley Wheel (4).....	MR20-691
Washer (8).....	21-748
Spacer (4).....	CE120-446
Adaptor.....	CE120-426

- **Atlanta, Ga.**
111 Ingersoll-Rand Drive
Chamblee, Georgia 30341
- **Baton Rouge, La.** 70816
4152 Rhoda Drive
- **Birmingham, Ala.** 35233
1516 Second Ave., South
- **Boston, Mass.**
2 Kuniholm Dr.
Holliston, Mass. 01746
- **Buffalo, N. Y.** 14225
195 Sugg Rd.
- **Charlotte, N. C.** 28208
4840 Wilmont Rd.
- **Chattanooga, Tenn.** 37407
1936 Central Ave.
- **Chicago, Ill.**
888 Industrial Drive
Elmhurst, Illinois 60126
- **Cincinnati, Ohio**
666 Redna Terrace
Woodlawn, Ohio 45215
- **Cleveland, Ohio** 44125
9257 Midwest Ave.
- **Corpus Christi, Texas** 78408
4540 Baldwin Blvd.
- **Dallas, Texas** 75247
8901 Directors Row
- **Denver, Colo.** 80207
5805 E. 39th Ave.
- **Detroit, Mich.**
22122 Telegraph Road
Southfield, Mich. 48075

Ingersoll-Rand®

Tool & Hoist Division
28 Kennedy Blvd.
East Brunswick, N. J. 08816

- **Freeport, Texas** 77541
211 Park Place
- **Hartford, Conn.**
60 Progress Drive
Manchester, Conn. 06040
- **Houston, Texas** 77001
6800 Sands Point, P.O. 1455
- **Indianapolis, Ind.** 46268
5315 West 86th St.
- **Los Angeles, Calif.** 90022
5533 East Olympic Blvd.
- **Milwaukee, Wis.**
N84 W13540 Leon Rd.
Menomonee Falls, Wis.
53051
- **Minneapolis, Minn.** 55404
Corner Franklin & Cedar
- **Moline, Ill.** 61265
3901 25 St.
- **Newark, N. J.**
28 Kennedy Blvd.
East Brunswick, N. J. 08816
- **New Orleans, La.** 70005
939 Lake Ave. Metairie
- **Peoria, Ill.** 61614
1809 West Chanute Rd.
- **Philadelphia, Pa.**
651 Park Ave.
King of Prussia, Pa. 19406
- **Pittsburgh, Pa.** 15220
6 Parkway Ctr.
- **Port Arthur, Texas** 77640
5336 Twin City Highway
- **Portland, Oregon** 97214
240 S. E. Clay St.
- **Richmond, Va.** 23230
3431 West Leigh St.
- **San Francisco, Calif.**
14299 Wicks Blvd.
San Leandro, Calif. 94577
- **Seattle, Wash.** 98188
345 Andover Park East
- **Shreveport, La.** 71106
450 W. 61st St.
- **St. Louis, Mo.** 63132
1515 Page Industrial Blvd.
- **Tampa, Fla.** 33609
3316 South Westshore Blvd.
- **Washington, D. C.** 20006
1666 K. St., N. W.

● Branch and All-Star™ Servicenter.
★ All-Star Servicenter only.

CANADA

- **Calgary, Alberta**, T2R 0E1
611 11th Ave., S. W.
- **Sherbrooke, Quebec**, J1H 3X4
375 Courcellette St.
- **Montreal, Quebec**
620 Cathcart St., H3B 1M2
P.O. Box 1148, H3B 3K9
- **Sudbury, Ontario**, P3A 3T3
P.O. Box 2220
- **Toronto**
Don Mills, Ontario M3B 2V1
255 Lesmill Road
- **Vancouver**
British Columbia, V6A 2W7
1695 Main St.
- **Winnipeg, Manitoba**, R3H 0M6
1234 Border St.

● All-Star Servicenter.

5-G7

AUTONOMOUS COMPANIES

- **Argentina, Buenos Aires**
Ingersoll-Rand Argentina
S.A. I y C.
Casilla Correo 2412, Correo Central
- **Australia, South Melbourne**
Ingersoll-Rand (Australia) Ltd.
P.O. Box 219
42 Moray Street, 3205 Victoria
- **Austria A 1120, Vienna**
Ingersoll-Rand Ges M.B.H.
Schoenbrunnerstrasse 213-215/2/5
- **Belgium, Diegem (Brussels)**
Ingersoll-Rand Benelux S.A.
Kouterveldstraat 10-12, 1920 Diegem
- **Brazil, Sao Bernardo**
Ingersoll-Rand S.A. Ind. e Com.
Caixa Postal 911
- **Chile, Santiago**
Ingersoll-Rand Chile
Morande 341
Casilla 126-D
- **Colombia, Bogota**
Macquinarias Ingersoll-Rand
de Colombia, S.A.
Apartado Aero 7451
- **Denmark, Albertslund DK2620**
Ingersoll-Rand AB
Herstedvang 11
- **Egypt, Cairo**
Ingersoll-Rand North East Africa
P.O. Box 820
23A Ismail Mohamed St.
Zamalek
- **England, London, SW1X, 7LU**
Ingersoll-Rand Co., Ltd.
Bowater House, Knightsbridge
- **France, 78 190 Trappes Yvelines**
Compagnie Ingersoll-Rand
Avenue Albert Einstein
Zone Industrielle
- **Germany, 403 Ratingen**
Ingersoll-Rand GmbH
Robt. Zapp Str. 7
Postfach 1380
- **Greece, Athens 610**
Ingersoll-Rand Central Middle East
17th Floor Athens Tower
Mesogion 2-4
- **Hong Kong**
Ingersoll-Rand Far East
19th Floor, Lap Heng House
50, Gloucester Road
- **India, Bombay 400018**
Ingersoll-Rand (India) Private Ltd.
44 Maulana Abdul Gaffar Rd.
P.O. Box 16564, Worli
- **Iran, Tehran**
Ingersoll-Rand Iran
P.O. Box 12-1538
- **Ireland, Dublin**
Ingersoll-Rand Company (Ireland) Ltd.
John F. Kennedy Drive
Bluebell
- **Italy, 20100 Milano**
Ingersoll-Rand Italiana, S.p.A.
Strada Provinciale Cassanese
Caselle Postale 1232
Vignate, Italy
- **Japan, 106 Tokyo**
Ingersoll-Rand (Japan) Ltd.
Kowa Bldg. No. 17
2-7 Nishi-Azabu 1-Chome
Minato-Ku
- **Kenya, Nairobi**
Ingersoll-Rand Mid Africa
P.O. Box 14240
- **Malaysia, Petaling Jaya**
Ingersoll-Rand Malaysia, Sdn. Bhd.
P.O. Box No. 125
- **Mexico, 10 D.F. Mexico**
Ingersoll-Rand S.A. de C.V.
Apartado 41-666
- **Netherlands, Zoeterwoude**
Ingersoll-Rand Benelux N.V.
P.O. Box 33, Zoeterwoude
- **Norway, Oslo 1**
Ingersoll-Rand AB
P.O. Box 143-Sentrum
- **Peru, Lima**
Ingersoll-Rand Co. of Peru, S.A.
Casilla 2261
- **Philippines, Makati, Rizal 3117**
Ingersoll-Rand Philippines, Inc.
P.O. Box 445 MCC
- **Portugal, Lisbon 5**
Ingersoll-Rand Lda
Apartado 2933
- **Puerto Rico, San Juan 00936**
Ingersoll-Rand de Puerto Rico Inc.
G.P.O. Box 1222
- **Singapore 22**
Ingersoll-Rand Southeast Asia (Pte.) Ltd.
G.P.O. Box 2062, Singapore 1
- **South Africa, Alberton**
Ingersoll-Rand Co. S.A. (Proprietary) Ltd
P.O. Box 3720
Alrode, 1451
- **Spain, Madrid**
Cia. Ingersoll-Rand, S.A.
Apartado 518
- **Sweden, Bromma**
Ingersoll-Rand A.B.
Fack
S-16125 Bromma 1
- **Venezuela, Caracas**
Ingersoll-Rand de Venezuela S.A.
Apartado 70588, Los Ruices

5-G7

AUTHORIZED I-R SALES AND SERVICE

Distributors in principal cities throughout the world. Contact the nearest Ingersoll-Rand office for the name and address of the distributor in your country or write to Ingersoll-Rand International, Woodcliff Lake, New Jersey.