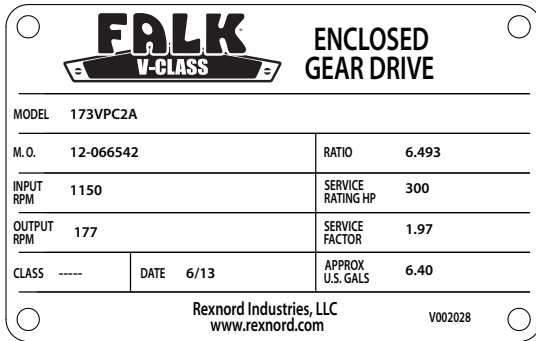


Introduction

This literature applies to Falk V Class (Model A) standard gear drives with ratings, speeds, ratios, and dimensions as catalogued in current Rexnord selection guides. Contact Rexnord for all specials and modifications.

1. **IDENTIFY DRIVE** — Give complete data shown on drive nameplate. Also, give reference numbers, Falk® part numbers, and name of parts required. Drawings and reference numbers are representative of all sizes and the actual parts may not agree in exact detail for each drive size. Complete nameplate data and parts reference number will assure receipt of correct parts.

The numerical designation stamped on the nameplate completely identifies all parts used in the drive. All drives with exactly the same nameplate markings have interchangeable rotating elements.



Sample Nameplate

2. **IDENTIFY INDIVIDUAL PARTS** — Use the exploded view on Page 2 to determine the reference number of the required parts.
3. **NOTE** — It is recommended that the shaft seals be replaced whenever it becomes necessary to disturb a seal in the process of disassembling a drive. New shim-gaskets are recommended to prevent oil leakage and in some cases necessary to adjust internal running clearances. Shim-gaskets are available only in kits; see reference number 100 in the table 1 Parts List.

PINIONS, GEARS, & SHAFTS — Replacement of a pinion, gear, or shaft may also require the replacement of the respective connected parts. It is recommended that the factory be contacted to help make that determination.

Rexnord can normally furnish a total rotating assembly more economically than if the customer purchases individual parts, disassembles the old parts, and reassembles using some new and old parts. Falk replacement assemblies also reduce down time and always consist of all new parts.

FASTENERS — Fasteners are sold in sets for a specific item, i.e. four for an end cover, eight for a low speed seal cage, etc. Fasteners describe cap screws, bolts, studs, nuts and lock washers as required.

RATIO CHANGE — Refer complete information to Rexnord.

SHAFT COUPLINGS — Refer to coupling parts guide and price list.

4. **HOW TO USE THIS GUIDE** — Use the Part Reference Number (step 2) and the drive Model Number (Step 1) to determine the part description and use this information to order the required parts.
5. **ORDER PLACEMENT** — Place your order with your local Rexnord Account Executive or Distributor. If you need assistance call the number below.

Bearing & Seal Identification

Refer to the exploded views on Page 2 to identify the bearings and oil seals by the parts list Reference Numbers. Then refer to Tables 2 thru 8 , Pages 3 and 4 to determine the correct bearing or seal and the commercial number.

Corrosion Protection & Storage

CAUTION: Follow guidelines below to avoid damage to parts.

1. For domestic or indoor storage, the Factory provides standard 24 month protection as boxed or optional 24 month protection for individual parts.
2. For export or outdoor storage, the Factory provides optional 18 month protection.

CAUTION: This protection does not cover exposure to elements such as standing water, etc.

Parts Diagram

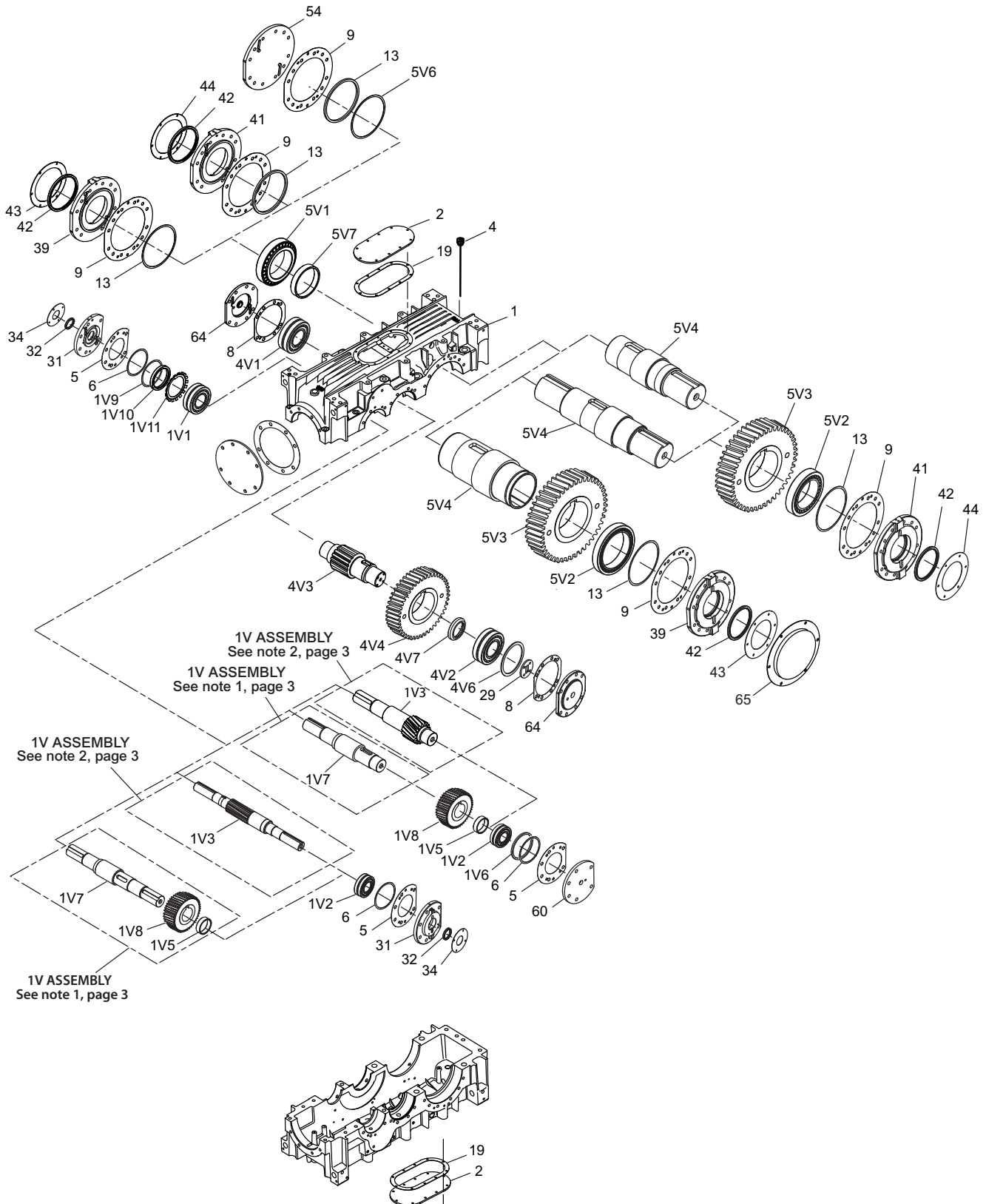


TABLE 1 — Parts List

Ref. No.	Part Description
1	Housing (Consists of Base & Cover & all Hardware)
2	Cover Inspection
4	Vented Dipstick
5	Gasket, High Speed Seal Cage or End Cover
6	Shim, Steel — High Speed Shaft Assembly (see Note 5)
8	Gasket, Low Speed Pinion End Cover
9	Gasket, Low Speed Seal Cage or End Cover
13	Shim, Steel — Low Speed Shaft Assembly
19	Gasket, Inspection Cover
29	Keeper Plate, Low Speed Pinion
30	Assembly, HS Seal Cage (includes ref. numbers 31, 32, & 34)
31	Cage, High Speed Seal
32	Seal, High Speed (Quantity 1 or 2)
34	Cover, High Speed Seal Cage
39	Cage, Low Speed Seal (Hollow Shaft)
40	Assembly, LS Seal Cage (includes ref. numbers 39 or 41, 42, & 43 or 44)
41	Cage, Low Speed Seal (Solid Shaft)
42	Seal, Low Speed (Quantity 1 or 2)
43	Cover, Low Speed Seal Cage (Hollow Shaft)
44	Cover, Low Speed Seal Cage (Solid Shaft)
54	Cover, Low Speed Shaft (Solid Shaft)
60	Cover, High Speed Shaft
64	Cover, Low Speed Pinion
65	Cover, Low Speed Shaft (Hollow Shaft)
100	Shim Gasket Kit (includes ref. numbers 5, 6, 9, 13, 19 above)
1V	HIGH SPEED SHAFT ASSEMBLY — Includes:
1V1	Bearing, High Speed Shaft
1V2	Bearing, High Speed Shaft
1V3	SOS Pinion, High Speed (See Note 2)
1V5	Spacer, Shaft (See Note 1)
1V6	Spacer, Housing (See Note 3, not used on sizes 107, 117, or 127)
1V7	Shaft, High Speed (See Note 1)
1V8	Bored Pinion, High Speed (See Note 1)
1V9	Spacer, Housing (See Note 4, not used on sizes 107 or 117)
1V10	Lock Nut, Bearing (See Note 4, not used on sizes 107 or 117)
1V11	Lock Washer, Bearing Nut (See Note 4, not used on sizes 107 or 117)
4V	LOW SPEED PINION ASSEMBLY — Includes:
4V1	Bearing, Low Speed Pinion
4V2	Bearing, Low Speed Pinion
4V3	Pinion, Low Speed (SOS)
4V4	Gear, High Speed Helical
4V6	Spacer, Housing
4V7	Spacer, Shaft
5V	LOW SPEED SHAFT ASSEMBLY — Includes:
5V1	Bearing, Low Speed Shaft
5V2	Bearing, Low Speed Shaft
5V3	Gear, Low Speed
5V4	Shaft, Low Speed
5V6	Spacer, Housing (not used with double extension shafts)
5V7	Spacer, Low Speed Shaft

- Applies to units with nominal ratios of 5.60 to 7.10 for sizes 107–167 and 187, and to units with nominal ratios of 5.00 to 6.30 for sizes 173–177.
- Applies to units with nominal ratios of 8.00 to 28.0 for sizes 107–167 and 187, and to units with nominal ratios of 7.10 to 25.0 for sizes 173–177.
- Applies to units with nominal ratios of 5.60 to 20.0 for sizes 133–167 and 187, and to units with nominal ratios of 5.00 to 18.0 for sizes 173–177.
- Applies to units with nominal ratios of 22.4 to 28.0 for sizes 127–167 and 187, and to units with nominal ratios of 20.0 to 25.0 for sizes 173–177.
- Not used with nominal ratios of 22.4 to 28.0 for sizes 127–167 and 187, and not used with nominal ratios of 20.0 to 25.0 for sizes 173–177.

**TABLE 2 — Oil Seals/Falk Part Number
LS Shaft Assembly (Ref. #5V)**

DRIVE SIZE	Falk Legacy # Ref. #42	New Falk # Ref. #42
107 VPC2 107VPT2/VPJ2/VPQ2	D005652 D005652	10165345 10165345
117VPC2 117VPT2/VPJ2/VPQ2	2931179 2931179	10096958 10096958
127VPC2 127VPT2/VPJ2/VPQ2	2930359 2930933	10096303 10096763
133-137VPC2 133-137VPT2/VPJ2/VPQ2	2931167 2931178	10096947 10096957
143-147VPC2 143-147 VPT2/VPJ2/VPQ2	2931179 2930698	10096958 10096561
153-157VPC2 153-157VPT2/VPJ2/VPQ2	2931178 2931180	10096957 10096959
163-167VPC2 163-167VPT2/VPJ2/VPQ2	D003723 D003199	10164093 10163841
173-177VPC2 173-177VPT2/VPJ2/VPQ2	2930698 2930699	10096561 10096562
187VPC2 187 VPT2/VPJ2/VPQ2	2930698 2930699	10096563 10096562

**TABLE 3 — Oil Seals/Falk Part Number
HS Shaft Assembly (Ref. #1V)**

DRIVE SIZE	Nominal Ratios	Falk Legacy # Ref. #32	New Falk # Ref. #32
107VPC2 107VPC2	5.6 – 20.0 22.4 – 28.0	D003347 D004601	10163912 10164730
117VPC2 117VPC2	5.6 – 20.0 22.4 – 28.0	D003347 D003348	10163912 10163913
127VPC2 127VPC2	5.6 – 20.0 22.4 – 28.0	D003721 D004481	10164091 10164659
133-137VPC2 133-137VPC2	5.6 – 20.0 22.4 – 28.0	D003346 D003347	10163911 10163912
143-147VPC2 143-147VPC2	5.6 – 20.0 22.4 – 28.0	D003720 D004280	10164090 10164497
153-157VPC2 153-157VPC2	5.6 – 20.0 22.4 – 28.0	D007907 D003345	10167223 10163910
163-167VPC2 163-167VPC2	5.6 – 20.0 22.4 – 28.0	D007906 D003720	10167222 10164090
173-177VPC2 173-177VPC2	5.0 – 18.0 20.0 – 25.0	D005735 D007907	10165422 10167223
187VPC2 187VPC2	5.6 – 20.0 22.4 – 28.0	D005735 D007907	10165422 10167223

**TABLE 4 — Oil Seal Descriptions/
Commercial Numbers**

Legacy Falk #	New Falk #	Descriptions	Commercial Numbers
2930359	10096303	Seal, Nitrile	125X160X12TC
2930698	10096561	Seal, Nitrile	200X230X13TC
2930699	10096562	Seal, Nitrile	280X310X15TC
2930933	10096763	Seal, Nitrile	170X190X13TC
2931167	10096947	Seal, Nitrile	140X170X12TC
2931178	10096957	Seal, Nitrile	180X210X10TC
2931179	10096958	Seal, Nitrile	150X180X13TC
2931180	10096959	Seal, Nitrile	220X250X13TC
D003199	10163841	Seal, Nitrile	240X270X15TC
D003345	10163910	Seal, Viton	56X70X8VTF
D003346	10163911	Seal, Viton	60X75X8VTF
D003347	10163912	Seal, Viton	45X62X7VTC
D003348	10163913	Seal, Viton	40X62X8VTC
D003720	10164090	Seal, Viton	70X100X10VTF
D003721	10164091	Seal, Viton	55X70X8VSB
D003723	10164093	Seal, Nitrile	200X230X15TC
D004280	10164497	Seal, Viton	50X65X8VTF
D004481	10164091	Seal, Viton	36X52X7VTF
D004601	10164730	Seal, Viton	30X47X7VTF
D005652	10165345	Seal, Nitrile	150X180X13TC
D005735	10165422	Seal, Viton	100X125X13VTM
D007906	10167222	Seal, Viton	90X120X12VTF
D007907	10167223	Seal, Viton	80X100X10VTC

**TABLE 6 — Bearings/Falk Part Number
LS Pinion Assembly (Ref. #4V)**

DRIVE SIZE	Falk Ref. Numbers/Falk Part Numbers			
	4V1		4V2	
	Legacy Falk #	New Falk #	Legacy Falk #	New Falk #
107VP2 All Shaft Types	2930842	10096690	2930842	10096690
117VP2 All Shaft Types	2930878	10096722	2930878	10096722
127VP2 All Shaft Types	2930307	10096262	2930307	10096262
133 – 137VP2 All Shaft Types	2930315	10096268	2930315	10096268
143 – 147VP2 All Shaft Types	2930623	10096503	2930623	10096503
153 – 157VP2 All Shaft Types	2930317	10096269	2930317	10096269
163 – 167VP2 All Shaft Types	919115	10066185	919115	10066185
173 – 177VP2 All Shaft Types	919111	10066181	919111	10066181
187VP2 All Shaft Types	919111	10066181	919111	10066181

**TABLE 5 — Bearings/Falk Part Number
HS Shaft Assembly (Ref. #1V)**

DRIVE SIZE	Nominal Ratios	Falk Ref. Numbers/ Falk Part Numbers			
		1V1		1V2	
		Legacy Falk #	New Falk #	Legacy Falk #	New Falk #
107VPC2 107VPC2	5.6 – 20.0 22.4 – 28.0	D003886 D004285	10164208 10164502	D003886 D004285	10164208 10164502
117VPC2 117VPC2	5.6 – 20.0 22.4 – 28.0	2930767 2931805	10096619 10097431	2930767 2931805	10096619 10097431
127VPC2 127VPC2	5.6 – 20.0 22.4 – 28.0	2930302 2930842	10096260 10096690	2930302 2930842	10096260 10096690
133 – 137VPC2 133 – 137VPC2	5.6 – 20.0 22.4 – 28.0	2930307 2930878	10096262 10096722	2930307 2930878	10096262 10096722
143 – 147VPC2 143 – 147VPC2	5.6 – 20.0 22.4 – 28.0	D002007 2930302	10163527 10096260	D002007 2930302	10163527 10096260
153 – 157VPC2 153 – 157VPC2	5.6 – 20.0 22.4 – 28.0	2930623 2930307	10096503 10096262	2930623 2930307	10096503 10096262
163 – 167VPC2 163 – 167VPC2	5.6 – 20.0 22.4 – 28.0	D002898 2930315	10163716 10096268	D002898 2930315	10163716 10096268
173 – 177VPC2 173 – 177VPC2	5.0 – 18.0 20.0 – 25.0	919115 2930461	10066185 10096382	919115 2930461	10066185 10096382
187VPC2 187VPC2	5.6 – 20.0 22.4 – 28.0	919115 2930461	10066185 10096382	919115 2930461	10066185 10096382

**TABLE 7 — Bearings/Falk Part Number
LS Shaft Assembly (Ref. #5V)**

DRIVE SIZE	Falk Ref. Numbers/Falk Part Numbers			
	5V1		5V2	
	Legacy Falk #	New Falk #	Legacy Falk #	New Falk #
107 VPC2 107VPT2/VPJ2/VPQ2	D004862 D004862	10164861 10164861	D004862 D004862	10164861 10164861
117VPC2 117VPT2/VPJ2/VPQ2	D005589 D005589	10165293 10165293	D005589 D005589	10165293 10165293
127VPC2 127VPT2/VPJ2/VPQ2	2930311 D004236	10096264 10164456	2930311 D004236	10096264 10164456
133 – 137VPC2 133 – 137VPT2/VPJ2/VPQ2	D002009 D003265	10163529 10163870	D002009 D003265	10163529 10163870
143 – 147VPC2 143 – 147VPT2/VPJ2/VPQ2	2931223 D002848	10096997 10163705	2931223 D002848	10096997 10163705
153 – 157VPC2 153 – 157VPT2/VPJ2/VPQ2	D002882 2930624	10163706 10096504	D002882 2930624	10163706 10096504
163 – 167VPC2 163 – 167VPT2/VPJ2/VPQ2	2930462 D003073	10096383 10163786	2930462 D003073	10096383 10163786
173 – 177VPC2 173 – 177VPT2/VPJ2/VPQ2	2930497 2930498	10096412 10096413	2930497 2930498	10096412 10096413
187VPC2 187VPT2/VPJ2/VPQ2	2930497 2930498	10096412 10096413	2930497 2930498	10096412 10096413

**TABLE 8 — Bearing Descriptions/
Commercial Numbers †**

Legacy Falk #	New Falk #	Descriptions	Commercial Numbers
919111	10066181	Spherical Roller Bearing	22324EAE4C3*H*
919115	10066185	Spherical Roller Bearing	22320EAE4C3*H*
2930302	10096260	Spherical Roller Bearing	22311EAE4C3*H*
2930307	10096262	Spherical Roller Bearing	22312EAE4C3*H*
2930311	10096264	Tapered Roller Bearing	30226
2930315	10096260	Spherical Roller Bearing	22315EAE4C3*H*
2930317	10096269	Spherical Roller Bearing	22319EAE4C3*H*
2930461	10096382	Spherical Roller Bearing	22317EAE4C3*H*
2930462	10096383	Tapered Roller Bearing	30240
2930497	10096412	Tapered Roller Bearing	HR32240J
2930498	10096413	Tapered Roller Bearing	HR32056XJ
2930623	10096503	Spherical Roller Bearing	22316EAE4C3*H*
2930624	10096504	Tapered Roller Bearing	HR32944J
2930767	10096619	Spherical Roller Bearing	22309EAE4C3*H*
2930842	10096690	Spherical Roller Bearing	22308EAE4C3*H*
2930878	10096722	Spherical Roller Bearing	22310EAE4C3*H*
2931223	10096997	Tapered Roller Bearing	HR30230J
2931805	10097431	Tapered Roller Bearing	HR33208J
D002007	10163527	Tapered Roller Bearing	HR32314J
D002009	10163529	Tapered Roller Bearing	30228M
D002848	10163705	Tapered Roller Bearing	HR32940J
D002882	10163706	Tapered Roller Bearing	HR32036XJ
D002898	10163716	Tapered Roller Bearing	HR32318J
D003073	10163786	Tapered Roller Bearing	HR32048XJ
D003265	10163870	Tapered Roller Bearing	HR32936J
D003886	10164208	Tapered Roller Bearing	HR33210J
D004236	10164456	Tapered Roller Bearing	HR32934J
D004285	10164502	Tapered Roller Bearing	HR32306J
D004862	10164861	Tapered Roller Bearing	HR32926J
D005589	10165293	Tapered Roller Bearing	HR32030XJ

† Consult Rexnord for approved bearing manufacturers.