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SECTION: Z5.00.150

ZM1347

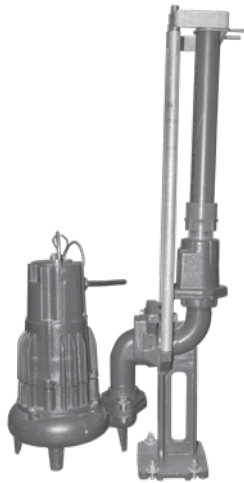
0420

Supersedes

1219

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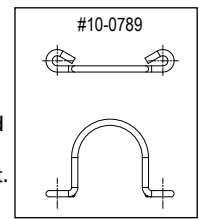
Z-Rail® Disconnect System shown

## Z-RAIL® DISCONNECT SYSTEMS

### THREADED DISCHARGE PUMPS 1-1/4" THRU 3" NPT

#### FEATURES

- Sewage, storm water and effluent pump systems
- For concrete, steel, or fiberglass tanks
- Allows for removal of pumps from ground level
- Coupling base with positive machine fit and o-ring seal provides a reliable seal.
- Guide rails direct the pump to and from the base discharge elbow. Systems are supplied complete with coupling base, sealing plate, pump discharge elbow, and upper rail support bracket.
- All systems use 3/4" schedule 40 pipe rails (not included).
- Refer to Z-Rail® installation instructions ZM2821.



SK2486

#10-0789 lifting bails are required on 6160, 6180, 6280, 6290, 7008/7009/7010, and 7020/7021 models to balance pump and rail plate evenly. Other models already include proper lifting device.

#### SPECIFICATIONS

Rail System	Pump Discharge	Rail System Discharge	Materials of Construction*	Weight	Type
39-0134	1-1/4" V	2" V	Powder coated, ductile iron	41	Z-Rail®
39-0135	1-1/4" V	2" V	Powder coated, ductile iron w/ SS upper rail support bracket	43	Z-Rail®
39-0136	1-1/4" V	2" V	Powder coated, ductile iron / brass for non-sparking	44	Z-Rail®
39-0143	1-1/4" V	2" V	Powder coated, ductile iron w/ SS upper rail support / brass for non-sparking	43	Z-Rail®
39-0137	1-1/4" H	1-1/4" V	Powder coated, ductile iron (models 7020, 7021 only)	41	Z-Rail®
39-0138	1-1/4" H	1-1/4" V	Powder coated, ductile iron w/ SS upper rail support bracket (models 7020, 7021 only)	43	Z-Rail®
39-0131	1-1/2" V	2" V	Powder coated, ductile iron	41	Z-Rail®
39-0132	1-1/2" V	2" V	Powder coated, ductile iron w/ SS upper rail support bracket	43	Z-Rail®
39-0133	1-1/2" V	2" V	Powder coated, ductile iron / brass for non-sparking	44	Z-Rail®
39-0142	1-1/2" V	2" V	Powder coated, ductile iron w/ SS upper rail support / brass for non-sparking	43	Z-Rail®
39-0128	2" V	2" V	Powder coated, ductile iron	42	Z-Rail®
39-0129	2" V	2" V	Powder coated, ductile iron w/ SS upper rail support bracket	43	Z-Rail®
39-0130	2" V	2" V	Powder coated, ductile iron / brass for non-sparking	45	Z-Rail®
39-0141	2" V	2" V	Powder coated, ductile iron w/ SS upper rail support / brass for non-sparking	44	Z-Rail®
39-0146	2" V	2" V	71 Series Grinder - Powder coated, ductile iron	43	Z-Rail®
39-0148	2" V	2" V	71 Series Grinder - Powder coated, ductile iron w/ SS upper rail support bracket	45	Z-Rail®
39-0147	2" V	2" V	71 Series Grinder - Powder coated, ductile iron / brass for non-sparking	43	Z-Rail®
39-0149	2" V	2" V	71 Series Grinder - Powder coated, D.I. w/ SS upper rail support / brass for non-sparking	44	Z-Rail®
39-0122	3" V	3" V	Powder coated, ductile iron	47	Z-Rail®
39-0123	3" V	3" V	Powder coated, ductile iron w/ SS upper rail support bracket	47	Z-Rail®
39-0124	3" V	3" V	Powder coated, ductile iron / brass for non-sparking	47	Z-Rail®
39-0125	3" V	3" V	Powder coated, ductile iron w/ SS upper rail support / brass for non-sparking	47	Z-Rail®
ACCESSORIES - Intermediate rail brackets are required for each 12' of basin depth					
39-0139	Intermediate rail bracket 1-1/4", 1-1/2" and 2" discharge - stainless steel			4	Z-Rail®
39-0140	Intermediate stabilizer, SS, for 3" system			4	Z-Rail®
10-0789**	SS lifting bail for 6160, 6180, 6280, 6290, 7008/7009/7010 and 7020/7021 series (Pictured above)			1	Both

\* Coupling base / sealing plate / upper support / bracket and rail guide.

\*\* Lifting bails are required on the following models to balance pump and rail plate evenly. Other models already include proper lifting device.

# FLANGED RAIL SYSTEMS (2-1/2" TO 6" Discharge) FIELD ASSEMBLED

Guide rail system for removal and installation of flanged, horizontal discharge pumps without getting in or removing fluid from pit.



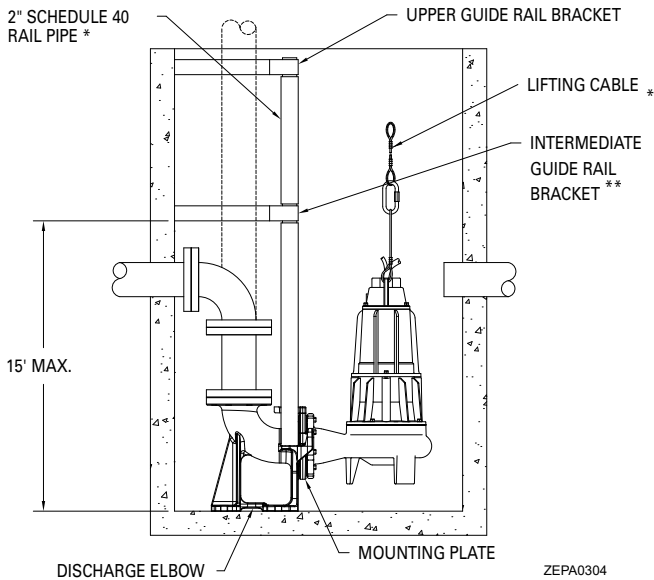
**2-1/2" & 3" Horizontal Flanged**



**4" System**



**6" System**

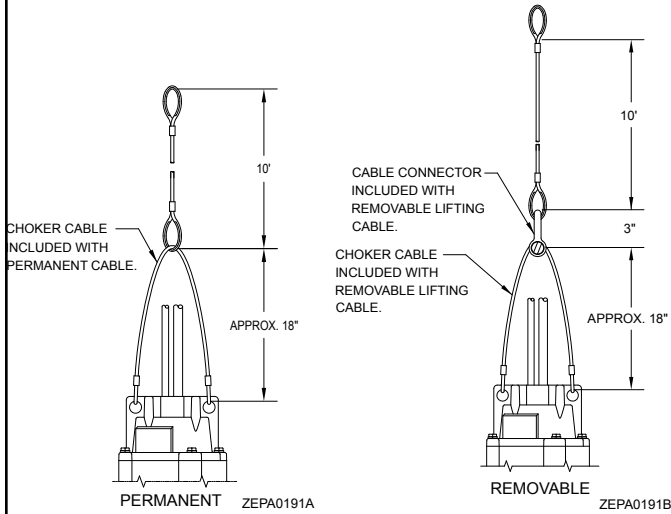


\* 1/4" lifting cable not included. See ZM1328 for correct cable.  
 \*\*One intermediate guide rail bracket is required for every 20 ft. for 3" system or 15 ft. for 4" or 6" system, of basin depth. See chart for part number.

SPECIFICATIONS				
Part Number	Description	Pump Discharge	Rail System Discharge	Guide Rails*
39-0094	2-1/2" / 3" guide rail system SS	2-1/2" or 3" horizontal flange	3" Flange	2" SS or galv.
39-0154	4" guide rail system SS flange	4" horizontal	4" Flange	2" SS or galv.
6039-0072	6" guide rail system SS flange	6" horizontal	6" Flange	2" SS or galv.
39-0095	2-1/2" / 3" guide rail system SS non-sparking for Class I Group C and/or Group D Division 1 installation	2-1/2" or 3" horizontal flange	3" Flange	2" SS or galv.
39-0155	4" guide rail system SS non-sparking for Class I Group C and/or Group D Division 1 installation	4" horizontal flange	4" Flange	2" SS or galv.
6039-0073	6" guide rail system SS non-sparking for Class I Group C and/or Group D Division 1 installation	6" horizontal flange	6" Flange	2" SS or galv.
39-0096	Intermediate bracket for 2-1/2" / 3" rail systems			
6039-0014	Intermediate bracket for 4" rail systems			
6039-0021	Intermediate bracket for 6" rail systems			

# PUMP LIFTING CABLES

## 1/4" Lifting Cables for pump models: 1-20 BHP Solids Handling Models 71 & X71 Series Grinder Models

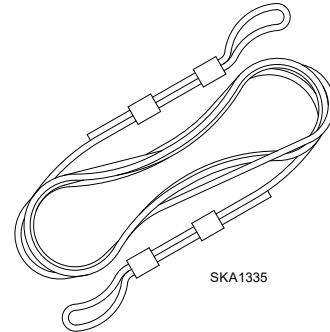


P/N	Description	Material	Wt. Lbs.
6039-0026	Choker Cable	Stainless Steel	1
6039-0027	Choker Cable	Galvanized Steel	1
6039-0028	Permanent Cable - 10'	Stainless Steel	4
6039-0029	Permanent Cable - 10'	Galvanized Steel	4
6039-0030	Removable Cable - 10'	Stainless Steel	5
6039-0031	Removable Cable - 10'	Galvanized Steel	5
6039-0032	Permanent Cable - 15'	Stainless Steel	6
6039-0062	Permanent Cable - 20'	Stainless Steel	7
6039-0061	Permanent Cable - 25'	Stainless Steel	8
6039-0068	Permanent Cable - 30'	Stainless Steel	9
6039-0067	Removable Cable - 15'	Stainless Steel	7
6039-0039	Removable Cable - 20'	Stainless Steel	8
6039-0036	Removable Cable - 25'	Stainless Steel	9

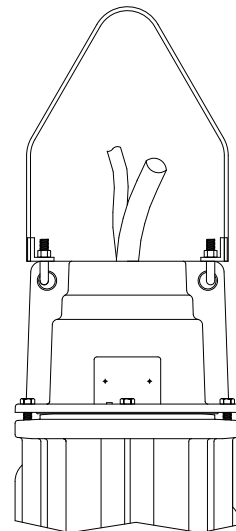
## 1/8" Stainless Steel Lifting Cables\*

Part Number	Length
39-0031	8'
39-0032	12'
39-0033	16'
39-0034	20'
39-0035	24'

\* Cable recommended for commercial duty pumps and 2HP Grinder Pumps.



## Rigid Lifting Bail



ZEPA0597

## 3/8" removable lifting cable: 25-60 HP 64 HD and X64 HD pumps

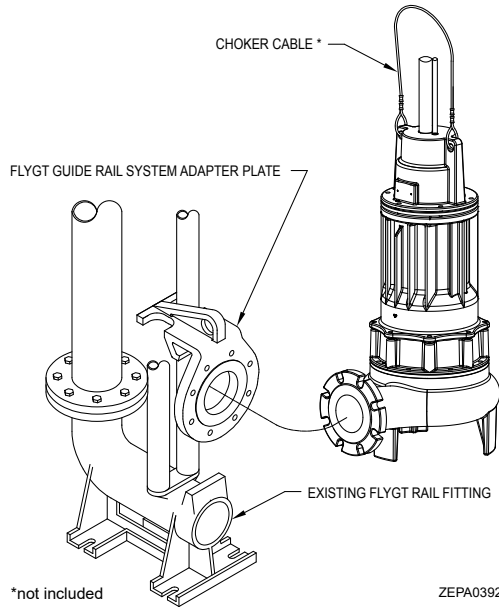
P/N	Description	Material	Wt. Lbs.
6039-0094	16' Cable w/ zinc plates shackle	Stainless Steel	5
6039-0105	20' Cable w/ zinc plates shackle	Stainless Steel	5
6039-0098	25' Cable w/ zinc plates shackle	Stainless Steel	6
6039-0097	30' Cable w/ zinc plates shackle	Stainless Steel	9
6039-0100	50' Cable w/ zinc plates shackle	Stainless Steel	16

\* Used with a Rigid Lifting Bail

PUMP SERIES	P/N	Material	Wt. Lbs.
61 HD & X61 HD	39-0175	Stainless Steel	4
62 HD & X62 HD	39-0175	Stainless Steel	4
71 & X71	39-0175	Stainless Steel	4
64 HD	6039-0042	Stainless Steel	5
X64 HD, 25 - 40 HP	39-0175	Stainless Steel	4
X64 HD, 50 - 60HP	39-0176	Stainless Steel	5

## 3", 4" & 6" FLYGT GUIDE RAIL SYSTEM ADAPTERS

Adapter plates for retrofitting 3", 4" & 6" horizontal  
discharge pumps to existing Flygt rail systems.



### DESIGN FEATURES

- Cast iron construction
- Flange conforms to ANSI B16.10 fully flat/MSS SP-6.
- For use with all 6400, 61 HD and 62 HD series pumps with 3", 4" or 6" discharges and 2" NPT rail pipe.
- Flange gasket and stainless steel bolts included.

Pump Discharge	Part Number
3"	6039-0070
4"	6039-0048
6"	6039-0053

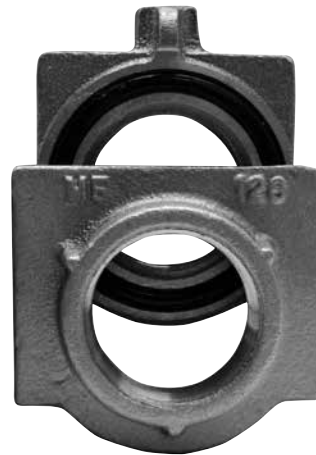
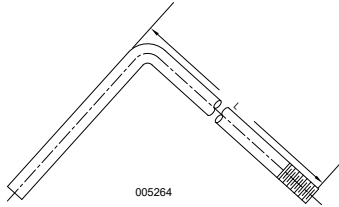
## DISCONNECT ONLY

**(1-1/4", 1-1/2" & 2" Discharge)**

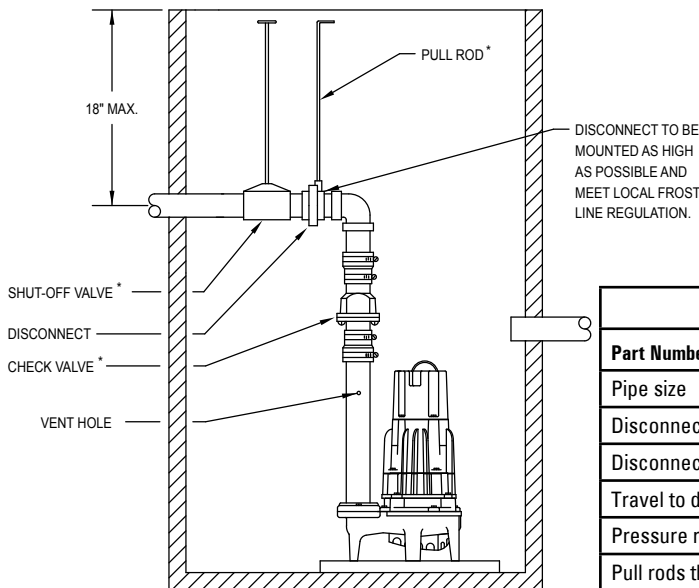
Disconnect fitting; used for shallow systems where  
guide rails are not necessary. (pull rod not included)

### Stainless Steel Pull Rods

3/8" - 16 UNC	
Part Number	Length
39-0069	1'
39-0006	2-1/2'
39-0007	3-1/2'
39-0008	4-1/2'
39-0009	5-1/2'



39-0053, 1-1/4" NPT  
39-0001, 1-1/2" NPT  
39-0002, 2" NPT



\*not included

SPECIFICATIONS			
Part Number	39-0053	39-0001	39-0002
Pipe size	1-1/4"	1-1/2" NPT	2" NPT
Disconnect material	brass	brass	brass
Disconnect weight	1.6 lb.	2.0 lbs.	2.5 lbs.
Travel to disengage	3-3/4"	3"	3-1/2"
Pressure rating	150 PSI	150 PSI	150 PSI
Pull rods thread size	3/8" - 16 UNC	3/8" - 16 UNC	3/8" - 16 UNC

NOTE: All pumps should be supported underneath with concrete blocks or basin floor.