



SNG 6008069

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Vertical Sump Pumps

EHCV/EVXV *series*



www.euroflopumps.com

Coding System

e.g. **EHCV, EVXV/125-315 5 KK**

XXXX

/XXX-XXX

X

XX

Series

EHCV= Vertical Sump Pump

Outlet Size

Impeller dia. and performance

Pump Length

Length = 1 to 5 meter

Impeller/body casing material

- BC = Bronze impeller and Cast Iron Body
- CC = Cast Iron impeller and Body
- SC = SS304 impeller and Cast Iron Body
- KC = SS316 impeller and Cast Iron Body
- WW = Fully cast steel (GS-C25 or A216-WCB)
- KK = SS316 impeller and Body
- SS = SS304 impeller and Body
- QQ = Special material on request

Introduction

Description

EHCV/ EVXV Series are centrifugal vertical single stage pumps.

Construction

The pump casing is constantly immersed in the pumped liquid, thus preventing the priming needs while minimizing the suction problems. The standard shaft lengths could vary from 1 to 5 meter. The discharge flange is vertically set on the support plate and is connected to the pump one by the discharge piping.

Seal

The standard sealing device is designed to use special lip seals. In this version, the fluid coming from the bearing flushing and from the internal recirculation is discharge through the holes on the shaft column.

It is possible to have either stuffing box or, alternatively, single or double mechanical seal devices according to specific requirement; in the last instance, the column is completely tight.

Bearing

The thrust ball bearing is grease lubricated as a standard, though a special execution with oil lubrication is also available. Line bearing materials are selected on the basis of the physical chemical characteristics of the pump fluid; hard rubber for waste waters and Teflon for corrosive fluids. Bronze line bearings are used in conjunction with grease lubrication.

Lubrication

The lubrication of the line bearing can be either through the pump discharge or by means of an external source. For specific application, it is possible to have a forced grease lubrication by means of a positive displacement pump.

Support plate

The standard support plate has rectangular shape; round support plate with dimensions according to customer's requirement can be also supplied.

Material

Casing : Carbon Steel or Cast Steel

Shaft : Carbon Steel or AISI 420

Column : Carbon Steel

Discharge Piping: Carbon Steel

Plate & Lantern : Carbon Steel

Bolts & Nuts : Stainless Steel

- Stainless steel pumps and other special alloy are available upon request

Operating Range:

Flow Rate(Q) Up to 900 m³/h

Head(H) Up to 150 m.w.c

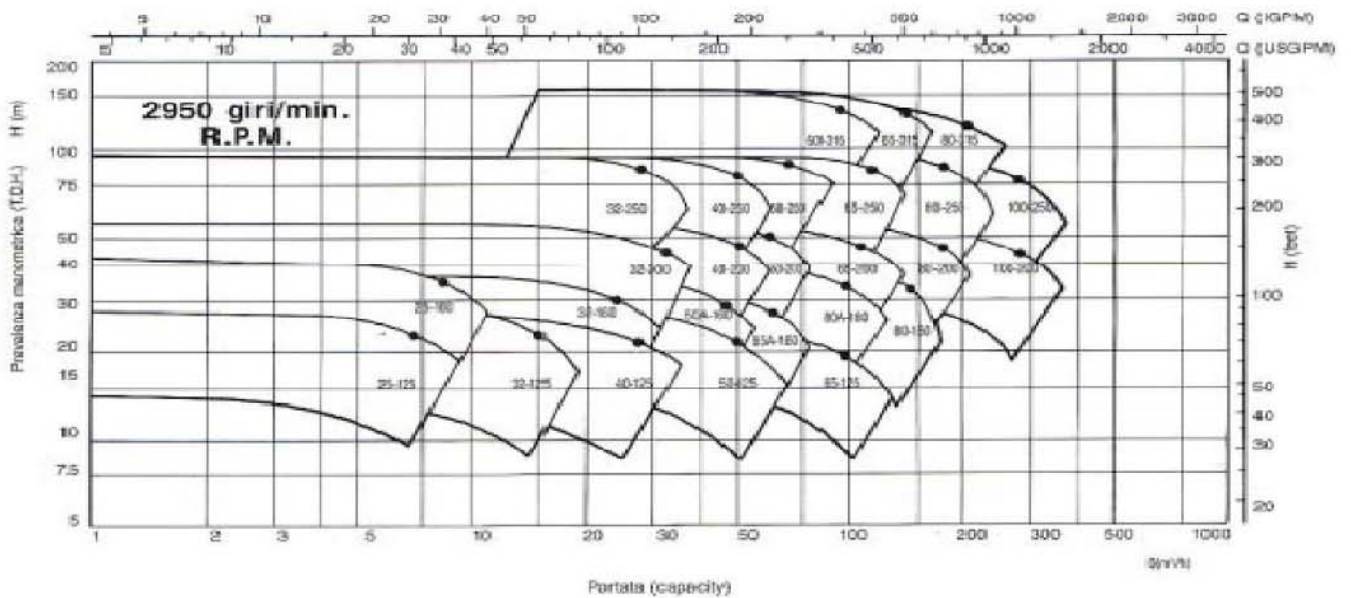
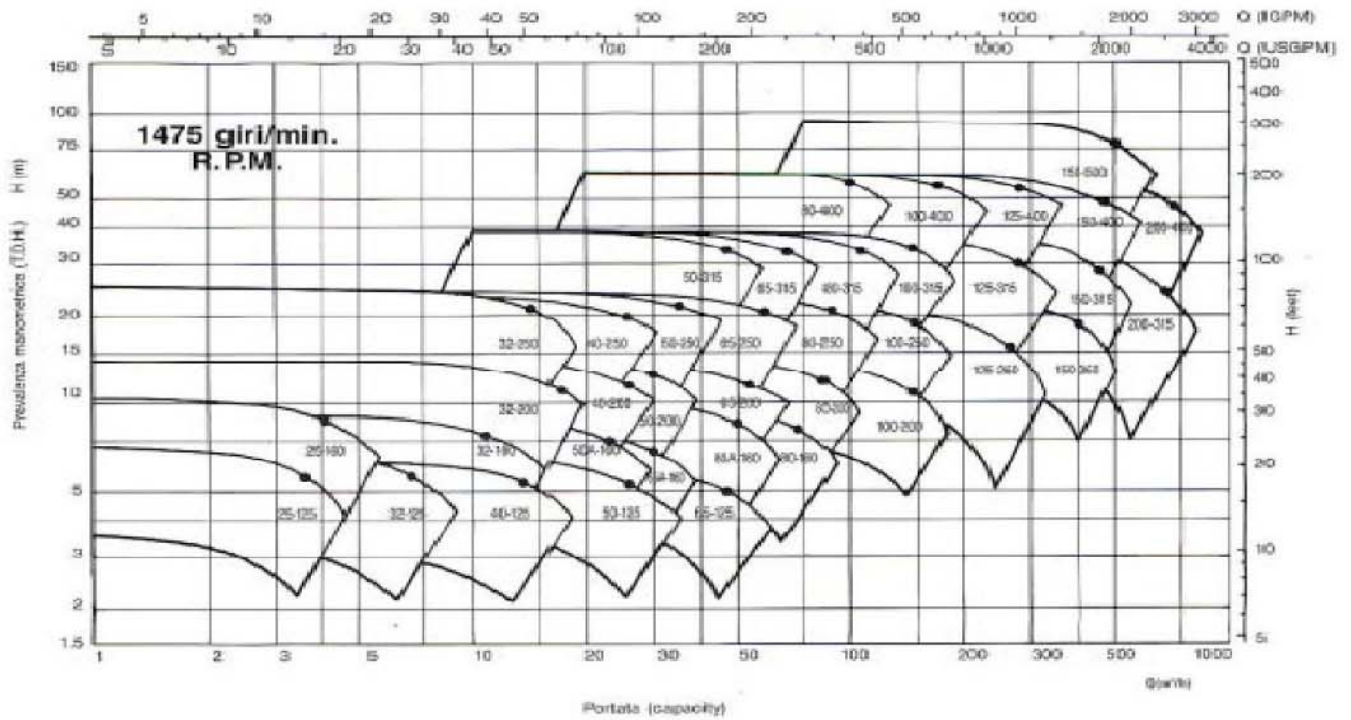
Operating Temp. Up to 160°C

Application

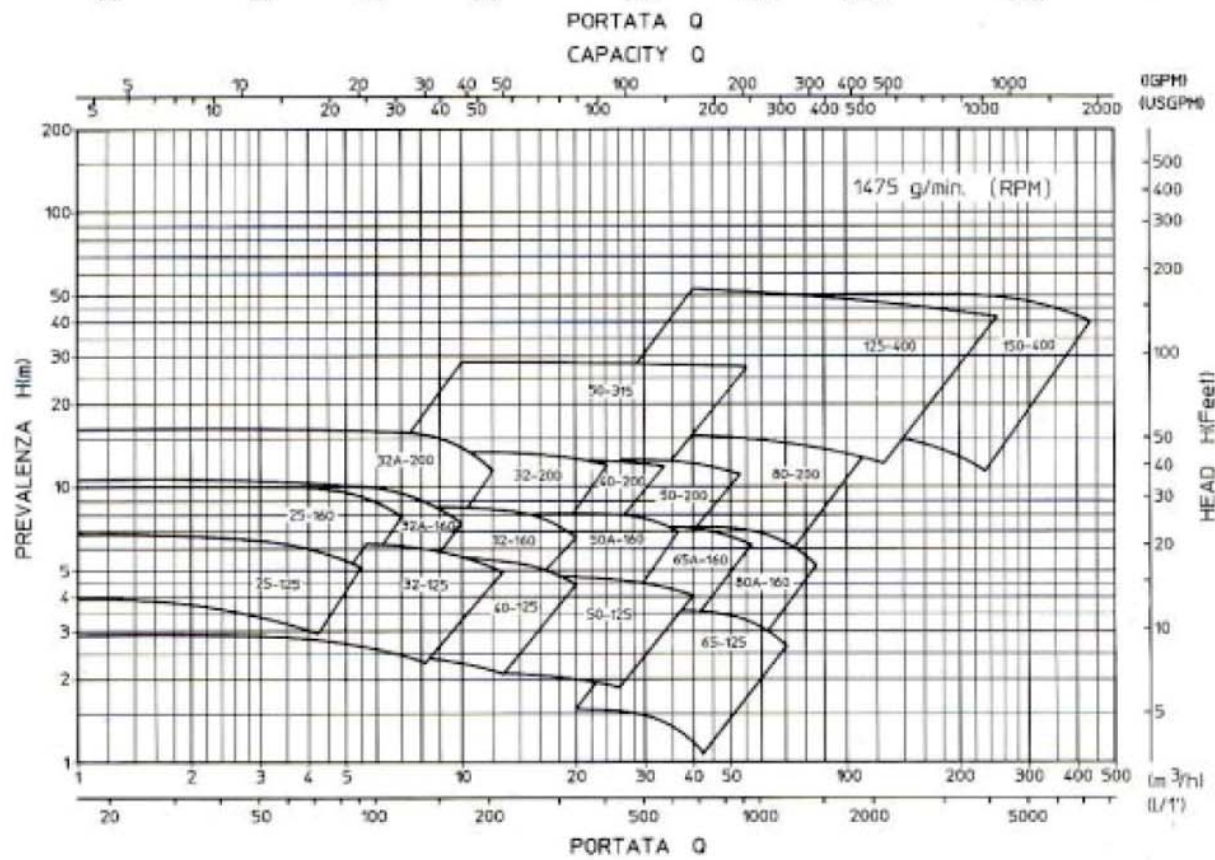
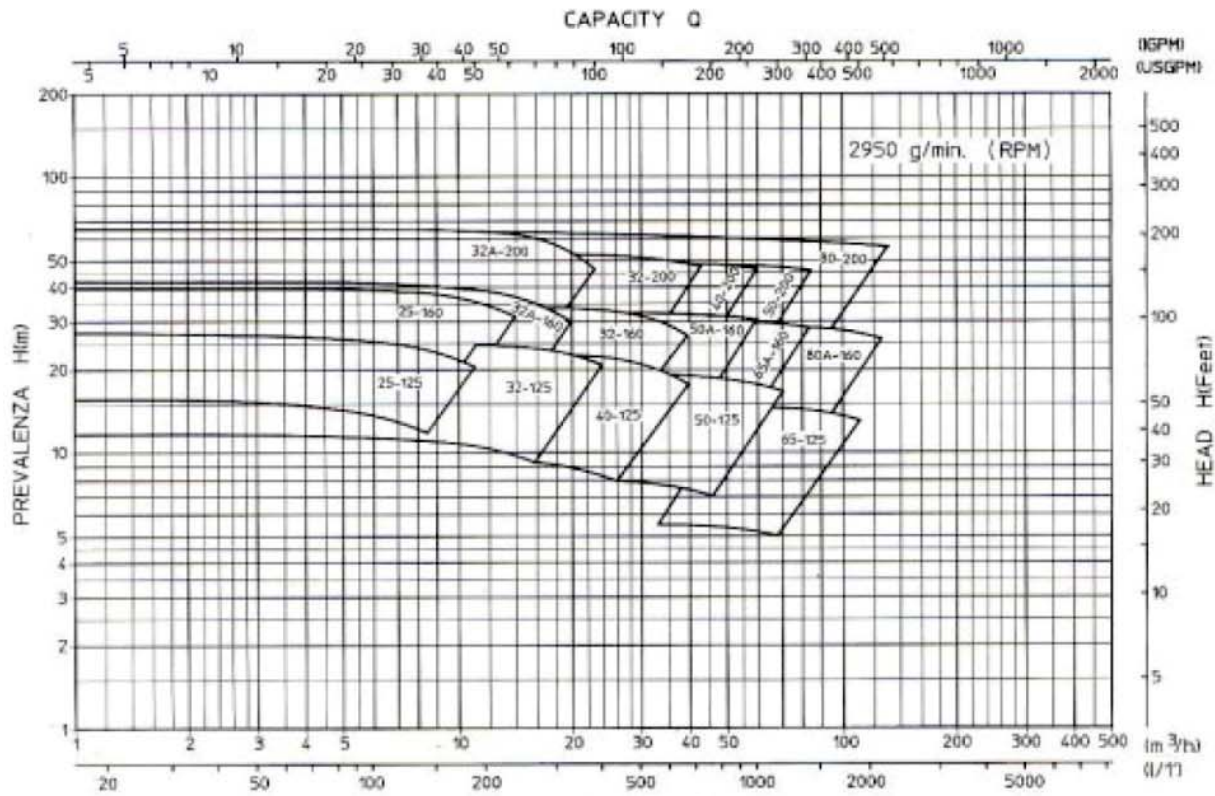
EHCV and EVXV pumps cover a wide range of applications in the chemical and process industries and are used to transfer clean or slightly dirty (EHCV) and dirty liquids (EVXV) , acid waters and various chemical products.

The temperature limits for the standard execution are 100°C for water and 160°C for liquids with very low vapour fluids, it is necessary to use round supporting plates and proper sealing devices.

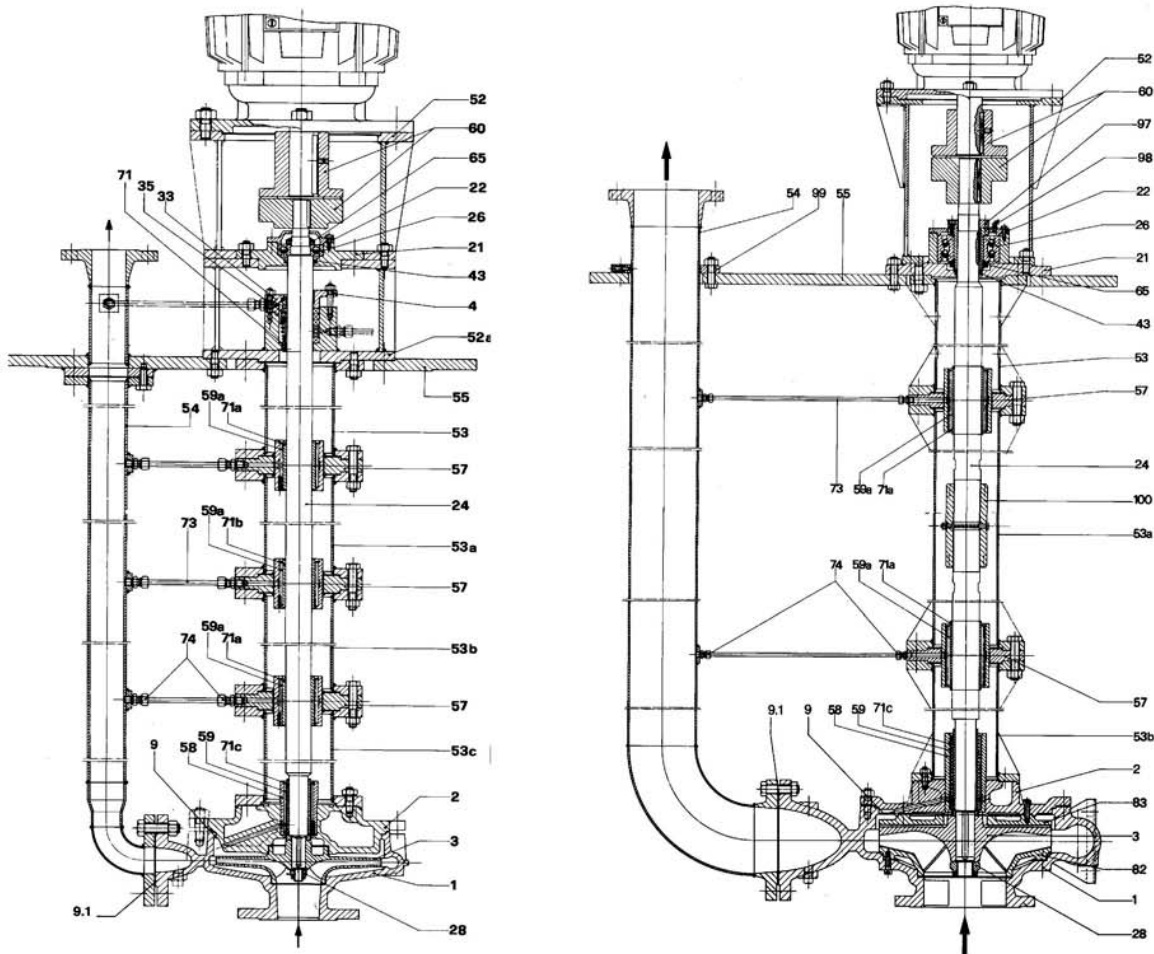
EHCV Performance Curve - 50Hz



EVXV Performance Curve - 50Hz



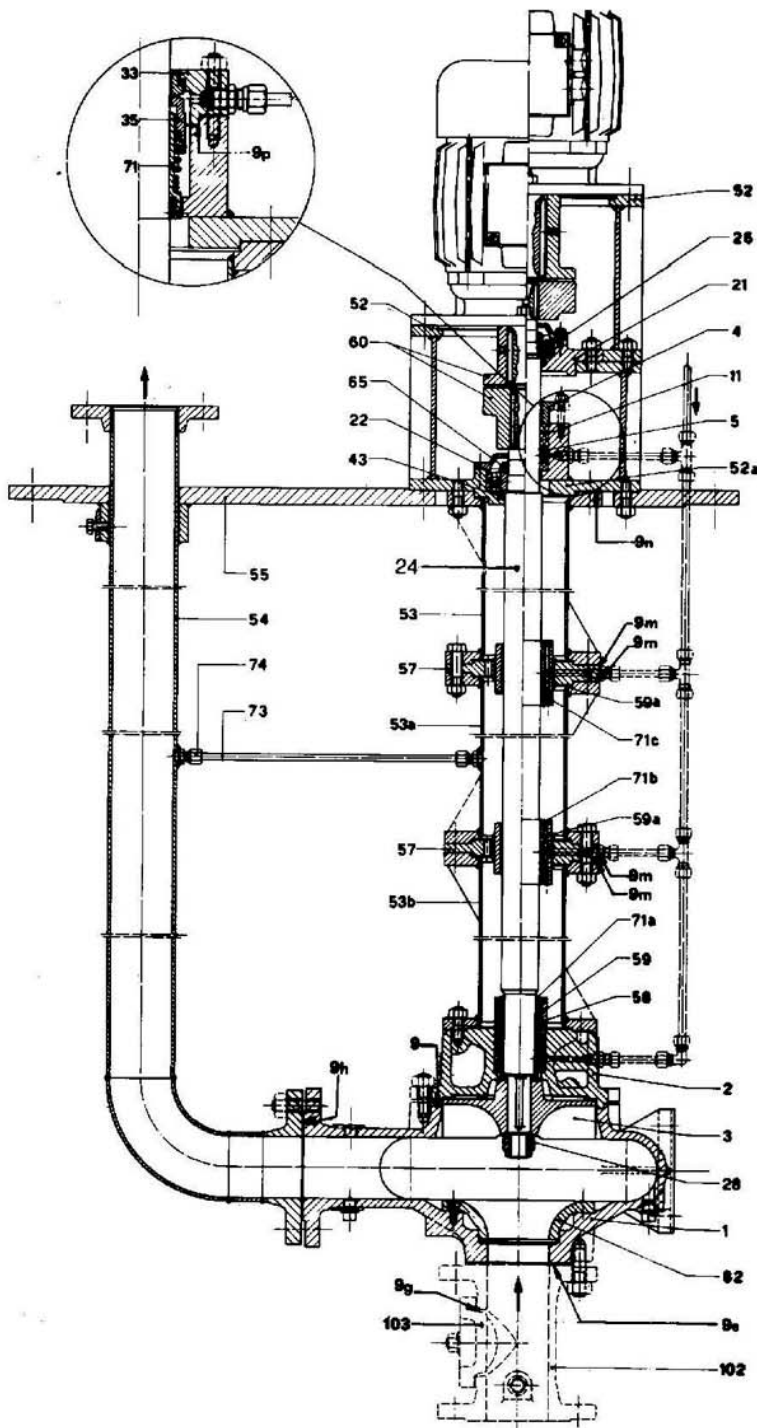
EHCV Sectional Drawing / Part List



Part Description

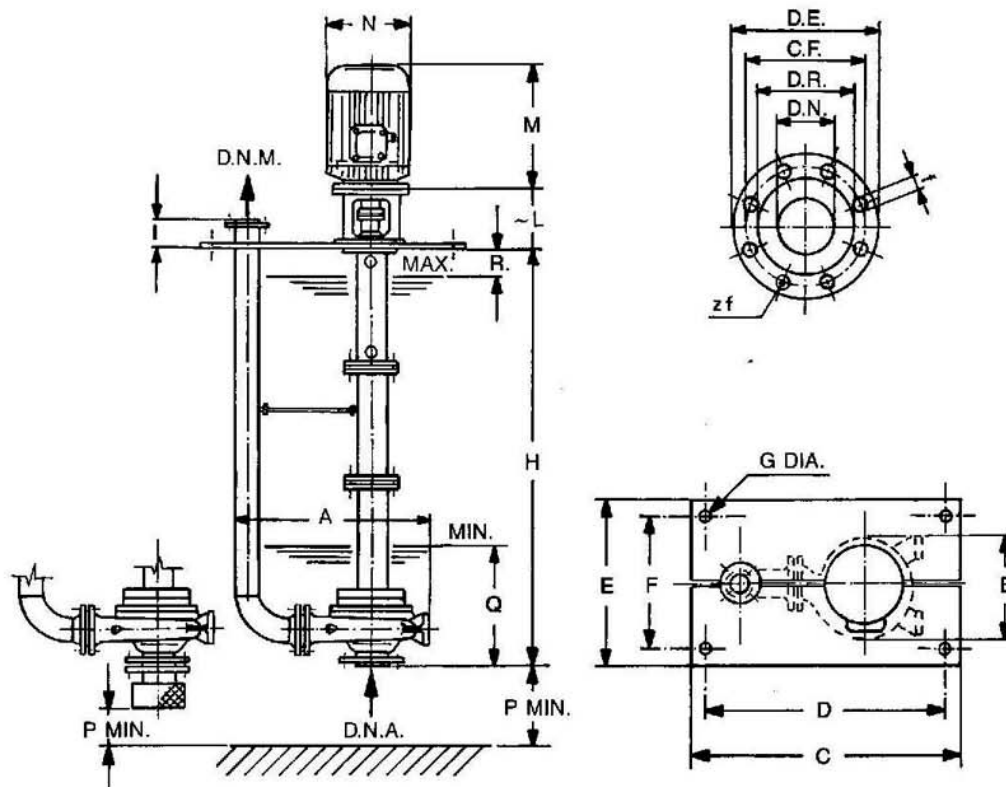
1 . Casing	28. Impeller nut	58.End support	97.Adjusting Nut
2. Cover	33 Mechanical seal flange	59.Line bush	98.Adjusting bushing
3. Impeller	35.Mechanical seal	59a.Line bush	99.Pipe Flange
6. Support Pipe	43 Seal Ring	60. Flexible coupling	100 Rigid coupling
9. Gasket	52 Motor Stool	65 bearing Nut	
9.1 Gasket	52a Stuffing box lantern	71 Mechanical seal shaft sleeve	
11. Bearing Cover	53 Support Pipe	71a shaft sleeve	
16. Electric motor	53a Support Pipe	71b shaft sleeve	
21.Axial Thrust bearing housing	53b Support Pipe	71c shaft sleeve	
22. Bearing Cover	53c Support Pipe	73 lubrication pipes	
24. Shaft	54 Delivery pipe	74 Lubrication Pipe fittings	
26.Axial thrust ball bearing	55. Base plate	82 Casing Wear plate for open impeller	
	57.intermediate Support	83 Casing Wear plate for open impeller	

EVXV Sectional Drawing / Part List



- | | |
|---------------------------------|-------------------------------|
| 1.Casing | 53.Support Pipe |
| 2. cover | 53a.Support Pipe |
| 3. Impeller | 53b.Support Pipe |
| 4. Packing Gland | 54. Discharg pipe |
| 5.Seal Cage | 55. Base plate |
| 9e. Gasket | 57 Intermediate Support |
| 9g . Gasket | 58. End Support |
| 9h. Gasket | 59.Sleeve |
| 9m . Gasket | 59a.Sleeve |
| 9n . Gasket | 60.Flexible coupling |
| 9P . Gasket | 65.Ring Nut |
| 11.Packing | 71.Shaft Sleeve for mech seal |
| 21. Bearing Housing | 71a.Shaft Sleeve |
| 22. Bearing Cover | 71b.Shaft Sleeve |
| 24. Shaft | 71c.Shaft Sleeve |
| 26. Ball Bearing | 73.lubrication Pipe |
| 28.Impeller Nut | 74. lubrication Pipe fitting |
| 33. Mechanical seal | 82.casing wear plate |
| Flange | 102.Inspection Pipe |
| 35.Mechanical seal | 103. Inspection Pipe |
| 43. Seal ring | |
| 52. Motor lantern | |
| 52a. Stuffing box lantern cover | |
| 53. Support Pipe | |

EHCV/EVXV Dimension Drawing



TIPO SIZE	FLANGE - FLANGES					DIMENSIONI - DIMENSIONS											
	D.N.A.			D.N.M.		A	B	C	D	E	F	G	I	L	P	Q	R
	ACV	HCV	VXV	4 Poli	2 Poli												
25-125	-	40	40	25	32	420	200	550	500	350	300	18	135	180	70	150	200
25-160	-	40	40	25	32	440	220	550	500	350	300	18	135	190	70	150	200
32-125	50	50	50	32	40	425	220	550	500	350	300	18	135	190	100	200	250
32-160	50	50	50	32	40	445	250	550	500	350	300	18	135	210	100	200	250
32-200	50	50	50	32	40	470	290	600	550	400	350	18	135	230	100	200	250
32-250	50	50	-	32	40	570	340	650	600	450	400	18	135	230	100	200	250
40-125	65	65	65	40	50	430	240	550	500	350	300	18	135	190	130	240	250
40-160	65	-	-	40	50	450	270	550	500	350	300	18	135	210	130	240	250
50A-160	-	65	65	50	50	450	270	550	500	350	300	18	135	210	130	240	250
40-200	65	65	65	40	50	475	300	600	550	400	350	18	135	230	130	240	250
40-250	65	65	-	40	50	575	350	650	600	450	400	18	135	230	130	240	250
50-125	65	80	80	50	65	455	270	600	550	400	350	18	135	210	160	300	300
50-160	65	-	-	50	65	560	300	650	600	450	400	18	135	230	160	300	300
65A-160	-	80	80	65	65	560	300	650	600	450	400	18	135	230	160	300	300
50-200	65	80	80	50	65	560	320	650	600	450	400	18	135	230	160	300	300
50-250	65	80	-	50	65	625	370	800	750	500	450	18	135	230	160	300	300
50-315	65	80	65	50	65	780	450	1000	940	650	590	22	135	300	160	300	300
65-125	-	100	100	65	80	570	320	650	600	450	400	18	135	210	185	370	300
65-160	80	-	-	65	80	570	340	650	600	450	400	18	135	230	185	370	300
80A-160	-	100	100	80	80	570	340	650	600	450	400	18	135	230	185	370	300
65-200	80	100	-	65	80	630	350	800	750	500	450	18	135	230	185	370	300
65-250	80	100	-	65	80	765	390	1000	940	650	590	22	135	300	185	370	300
65-315	80	100	-	65	80	790	470	1000	940	650	590	22	135	300	185	370	300
80-160	100	125	-	80	100	640	370	800	750	500	450	18	150	230	230	470	350
80-200	100	125	80	80	100	640	390	800	750	500	450	18	150	300	230	470	350
80-250	100	125	-	80	100	800	420	1000	940	650	590	22	150	300	230	470	350
80-315	100	125	-	80	100	830	500	1000	940	650	590	22	150	300	230	470	350
80-400	-	125	-	80	-	1010	550	1250	1190	800	740	22	150	300	230	470	350
100-200	125	125	-	100	125	790	450	1000	940	650	590	22	150	300	250	530	350
100-250	125	125	-	100	125	815	470	1000	940	650	590	22	150	300	250	530	350
100-315	125	125	-	100	-	840	520	1000	940	650	590	22	150	270	250	530	350
100-400	125	125	-	100	-	1020	600	1250	1190	800	740	22	150	370	250	530	350
125-250	150	150	-	125	-	1010	550	1250	1190	800	740	22	150	270	250	530	400
125-315	150	150	-	125	-	1040	570	1250	1190	800	740	22	150	300	250	530	400
125-400	150	150	200	125	-	1070	640	1250	1190	800	740	22	150	370	250	530	400
150-250	200	200	-	150	-	1050	630	1250	1190	800	740	22	200	300	300	650	400
150-315	200	200	-	150	-	1085	630	1250	1190	800	740	22	200	370	300	650	400
150-400	200	200	-	150	-	1270	720	1500	1440	1000	940	22	200	370	300	650	400
150-500	200	200	-	150	-	1330	760	1500	1440	1000	940	22	200	400	300	650	400
200-315	250	250	-	200	-	1335	750	1500	1440	1000	940	22	200	370	350	820	400
200-400	250	250	-	200	-	1335	780	1500	1440	1000	940	22	200	400	350	820	400

DIMENSIONI FLANGE PN 16					
FLANGE DIMENSIONS NP 16					
DN	DE	CF	DR	zf	f
25	115	85	68	4	14
32	140	100	78	4	18
40	150	110	88	4	18
50	165	125	102	4	18
65	185	145	122	4	18
80	200	160	138	8	18
100	220	180	158	8	18
125	250	210	188	8	18
150	285	240	212	8	22
200	340	295	268	12	22
250	405	355	320	12	25

Lunghezza pompa Pump length	Supporti intermedi Intermediate supports	
	N	
H(m)	1450 rpm	2950 rpm
1	0	0
1,5	0	1
2	1	1
2,5	1	2
3	1	2
3,5	2	3
4	2	3
4,5	2	4
5	3	4