Technical Data

Pump Name 3S 32-160/1.5

Customer	Date	2024-06-12	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-12 12:10:37	E-mail

Requested data

1	Pump type	CENTRIFUGAL PUMPS	Fluid		Water
2	Number of pumps / Reserve	1 / 0	Liquid temperature	°C	20
3	Flow m³/h		Kin. viscosity	mm²/s	1.005
4	Head m		Vapour pressure	bar	0.0234
5	Geodetic head m		PH value		
6	Inlet pressure (pin) bar	0	Density	kg/m³	998.3
7	Available system NPSH		Solids	Weight %	0
8	Ambient temperature °C	20			

Pump

9	Pump Name	3S 32-160/1.5	Frequency		Hz	50
10	Design	CENTRIFUGAL PUMPS	Installation type			STANDARD
11	Manufacturer	EBARA	Impeller Diameter	Max.	mm	151
12	Speed rpm	2900		Designed	mm	151
13	No. of Stage	1		Min.	mm	151
14	Connection Suction side	DIN 2532	Flow	Operating	m³/h	
15	Connection Discharge side	DIN 2532		Max-	m³/h	20
16	Max Working Pressure bar	10		Min-	m³/h	6
17	Shut-off head bar	2.89	Head	Operating	m	
18	Total weight kg	See the table of "Dimensions".		- (Qmax.)	m	17.0
19	Shaft power kW			- (Qmin.)	m	28.0
20			Max. Shaft Power at max. impeller		kW	1.57
21	Required pump NPSH m		Efficiency		%	

Materials

22	Impeller	AISI 304		
23	Casing	AISI 304		
24	Shaft	AISI 304		
25				
26				
27				

Motor

28	Manufacturer	LAFERT	Insulation class		F
29	Type	TEFC_3S32-160/1.5_230_Three Phase	Phases		3~
30	Specific design	IE3 / 50 Hz / Pole pairs 1	Frame size		90 S
31	Rated power kW	1.5	Weight	kg	14
32	Number of poles	2	Electric voltage	V	230
33	Speed rpm	2900	Electric current	A	5.2
34	Degree of protection				
35					

Remarks

EBARA

Performance Curve

Pump Name 3S 32-160/1.5

Customer		Date	2024-06-12	Company	
Contact		Item no.		Issued by	
Phone		Project		Phone	
E-mail		Project ID	Proiect redenumit 2024-06-12 12:10:37	E-mail	

Requested data

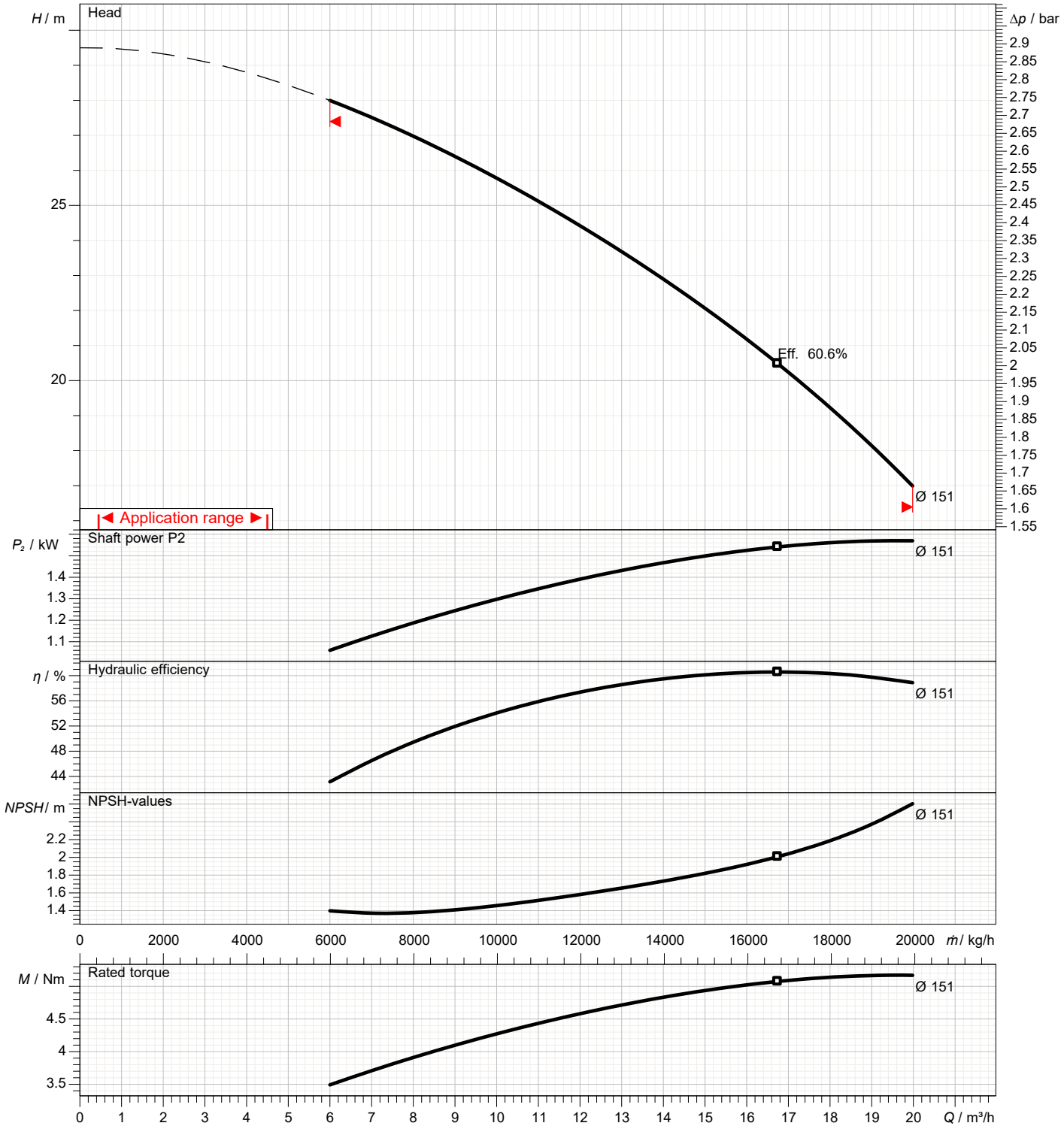
1	Flow	m³/h	
2	Head	m	
3	Geodetic head	m	

Pump

Operating flow	m³/h		Frequency	Hz	50
Operating head	m		Number of poles		2
Impeller diameter designed	mm	151	Speed	rpm	2900

Test standard: ISO 9906:2012 - Grade3B

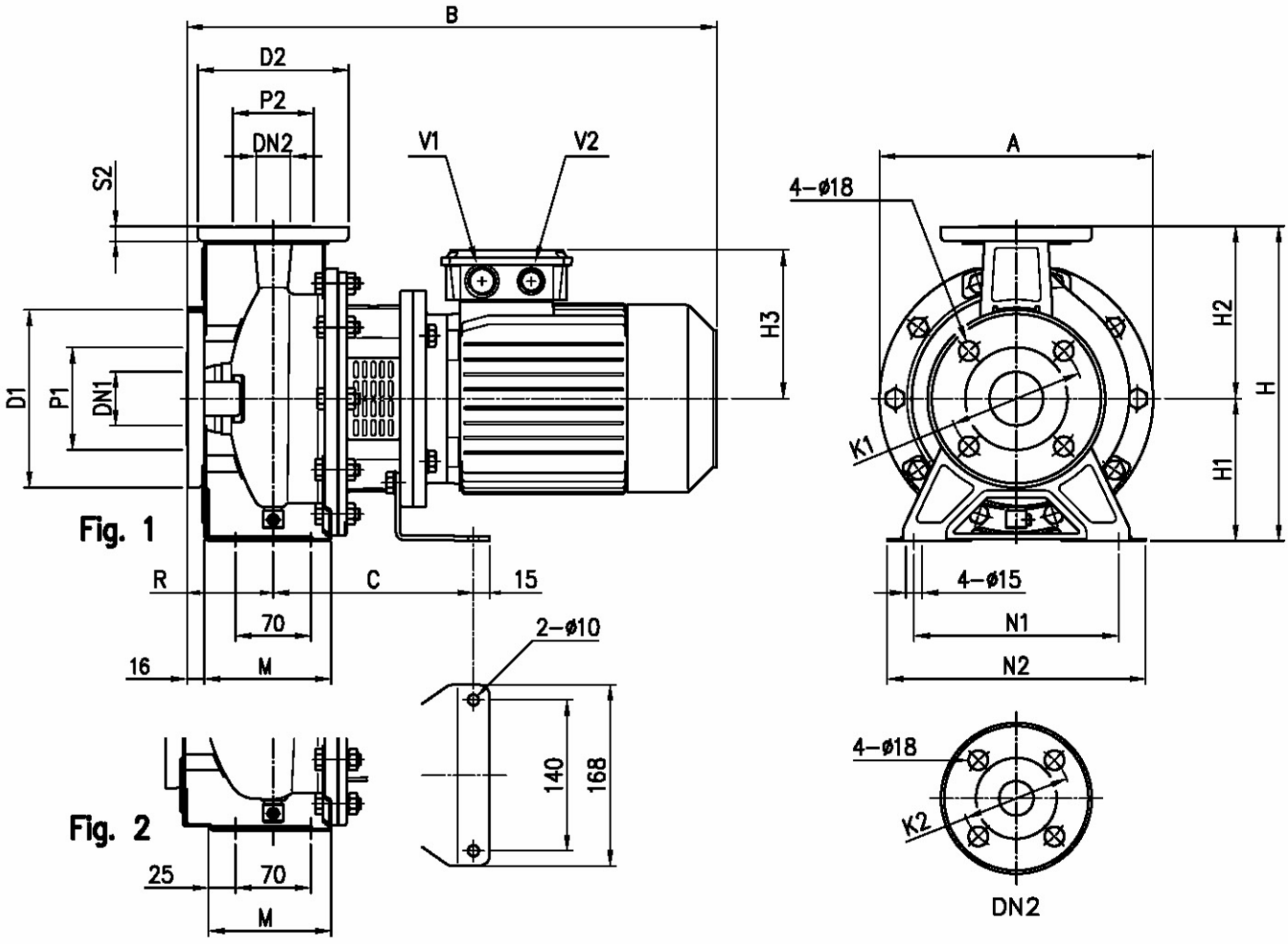
Water; 20°C; 998.3kg/m³; 1mm²/s



Dimensions

Pump Name 3S 32-160/1.5

Customer	Date	2024-06-12	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-12 12:10:37	E-mail



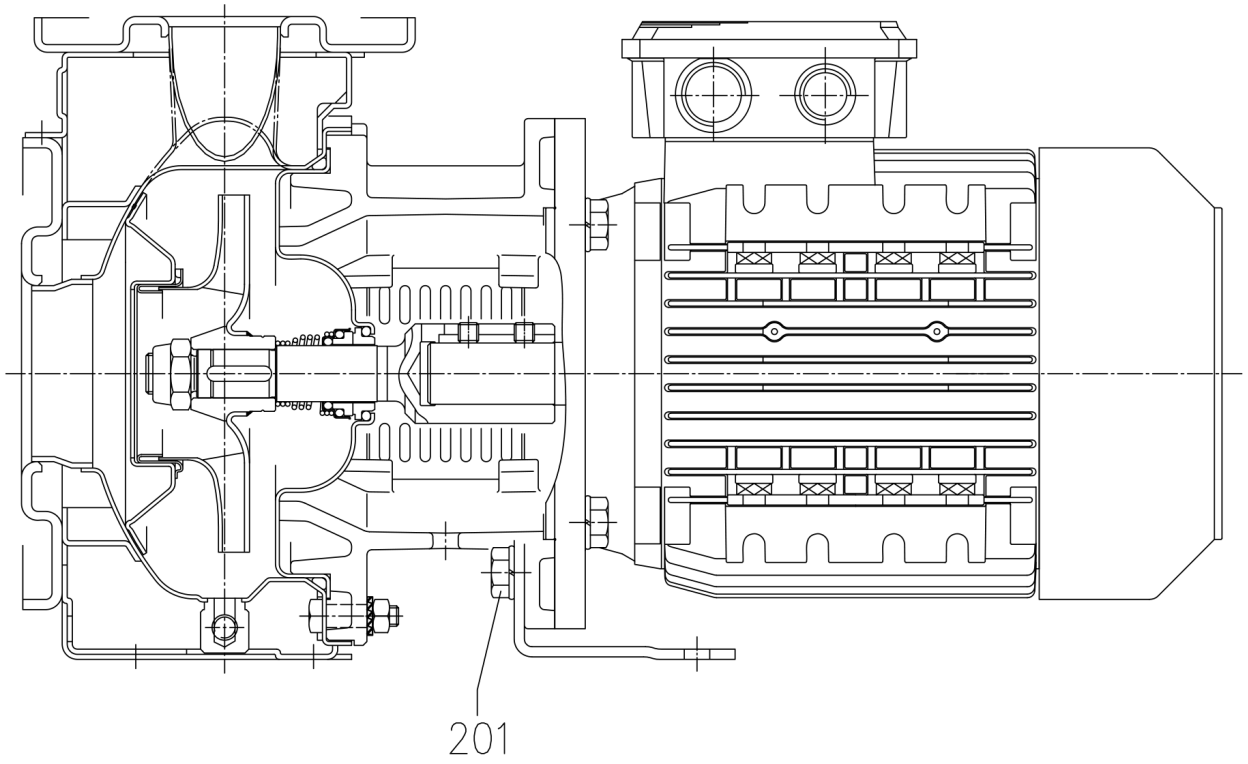
Dimensions in	mm							
1	A	254	H3	148				
2	B	477	M	118				
3	C	186	N1	190				
4	Dia D1	165	N2	240				
5	Dia D2	140	R	80				
6	Dia DN1	50	S2	14				
7	Dia K1	125	V1	[M25x1].5				
8	Dia K2	100	V2	[M20x1].5				
9	Dia P1	95	Weight P&M	29,8 kg				
10	Dia P2	75						
11	DN2	32						
12	Fig	1						
13	H	292						
14	H1	132						
15	H2	160						

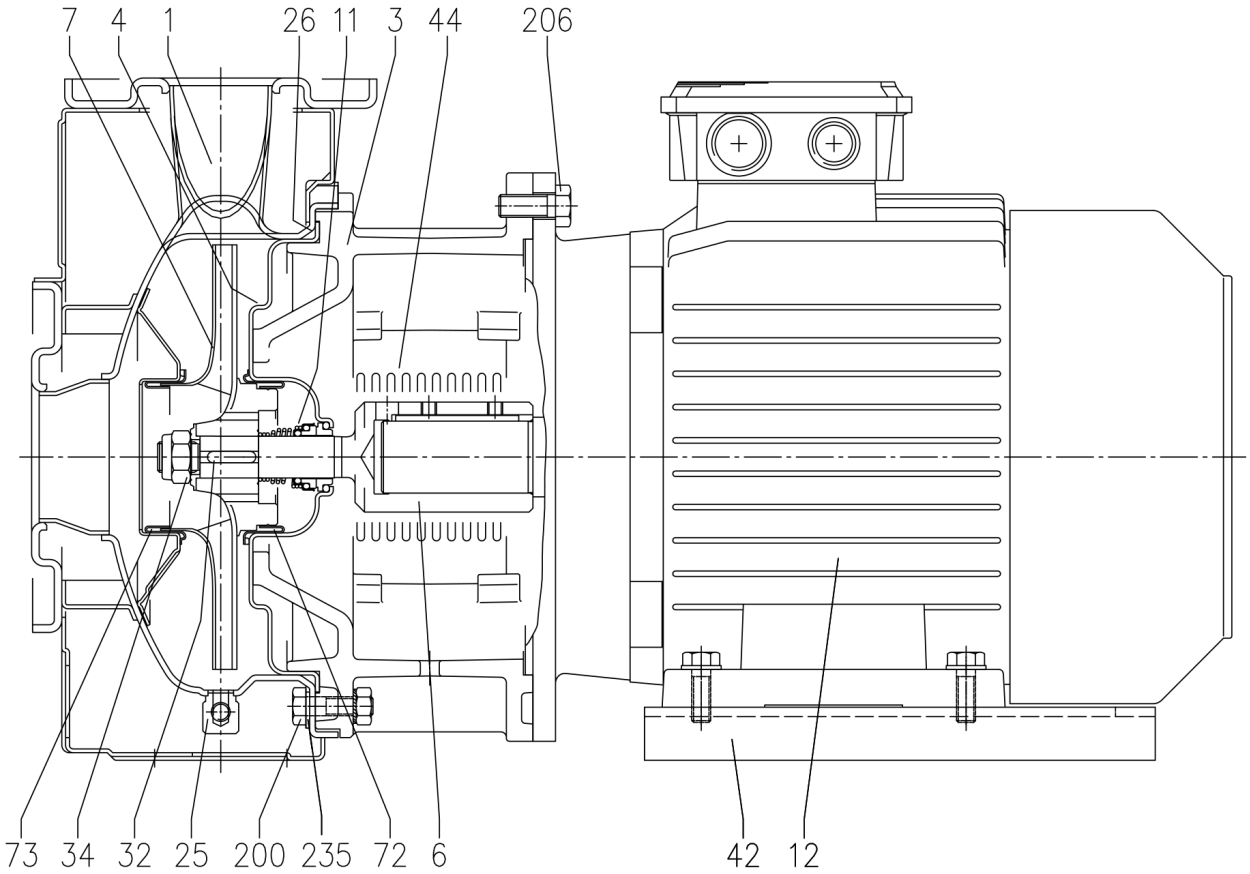
EBARA

(1/3)
Construction

Pump Name 3S 32-160/1.5

Customer	Date	2024-06-12	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-12 12:10:37	E-mail





(2/3)
Construction

Pump Name 3S 32-160/1.5

Customer	Date	2024-06-12	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-12 12:10:37	E-mail

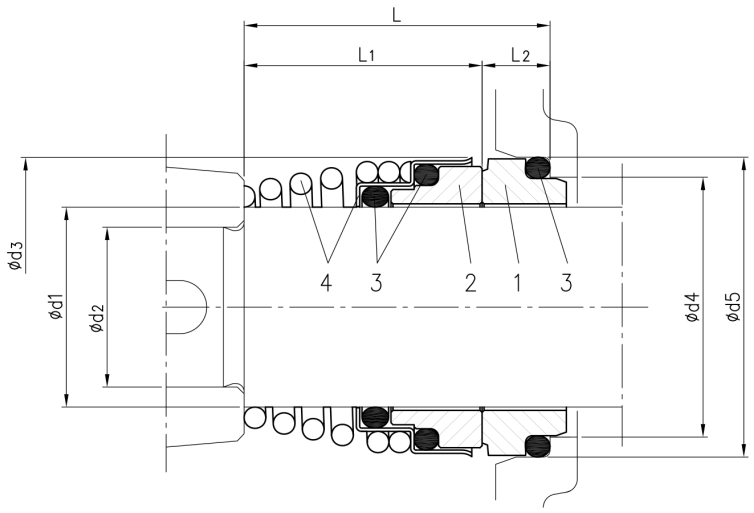
N°	PART NAME		MATERIAL 3S	MATERIAL 3LS	DIMENSIONS	STANDARD	Q.TY
001	Casing		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
003	Motor bracket		Cast iron EN-GJL-200-EN 1561				1
003A	Adapter ring [1]		Cast iron EN-GJL-200-EN 1561				1
004	Casing cover		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
006	Coupling - Part in contact with liquid		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
007	Impeller		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
011	Mechanical seal		Carbon/Ceramic/NBR	SiC/SiC/FPM	[7]		1
012	Motor		-				1
025	Draing plug		EN 1.4401 (AISI 316) / PTFE		R 1/8" L=8	DIN 906	1
026	"O" ring	32-125, 40-125	NBR [8]	FPM	158.11x5.34	OR 6625	1
		32-160, 40-160, 50-125, 65-125			183.52x5.34	OR 6720	
		32-200, 40-200,50-160, 50-200, 65-160, 65-200			227.96x5.34	OR 6895	
032	Key	Up to 11 kW	EN 1.4401 (AISI 316)		6x6x25	UNI 6604	1
		15 kW and above			8x7x30		
034	Impeller nut	Up to 11kW	EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)	M16x1.5	UNI 7474	1
		50-200/15			M18x1.5		
		15 kW and above			M20x1.5		
042	Foot		Aluminium / Galvanized steel				[2]
044	Protection		EN 1.4301 (AISI 304)			EBARA DRAWING	1
072	Casing ring [3]		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
073	Casing ring (not for 65 version)		EN 1.4301 (AISI 304)	EN 1.4404 (AISI 316L)			1
200	Screw	32-125, 40-125	Stainless steel A2 70 class ISO 3506/1		M 8x30	UNI 5739	8
		50-200, 65-125, 65-160, 65-200			M 10x35	UNI 5739	[4]
201	Screw		Galvanized Steel 8.8 strenght class ISO 898/1		M 10x16	UNI 5739	[5]
206	Screw for bracket		Galvanized Steel 8.8 strenght class ISO 898/1		M 10x40	UNI 5739	4
206-2	Screw adapter ring [1]		Galvanized Steel 8.8 strenght class ISO 898/1			UNI 5931	4
235	Washer	32-125, 40-125	Stainless steel A2 70 class ISO 3506/1		M 8.4x17	UNI 6592	8
		50-200, 65-125, 65-160, 65-200			M 10.5x21	UNI 6592	[4]
244	Pin [6]		-	EN 1.4301 (AISI 304)		UNI 5931	4

[1] Only for version 65-125/5.5 and 65-125/7.5
[2] Quantity =0 for version 65-200/22
Quantity =1 for version for 32, 40, 50, 65-125/5.5, 65-125/7.5, 65-160/11, 65-160/15, 65-200/15, 65-200/18.5
Quantity =2 for version for 65-125/4, 65-160/7.5, 65-160/9.2
[3] Only for version 32-200, 40-200, 50-160, 50-200
[4] Quantity =10 for 32-160, 40-160, 50-125, 65-125
Quantity =12 for 32-200, 40-200, 50-160, 50-200, 65-160, 65-200
[5] Only for version 32-125/1.1, 32-160/1.5, 32-160/1.5, 32-160/2.2, 40-125/1.5, 40-125/2.2, 50-125/2.2
[6] Only for 65-160/15, 65-200
[7] Special version: see **CONSTRUCTION 3**
[8] FPM for H-HS-HW-HSW version
EPDM for E version

(3/3)
Construction

Pump Name 3S 32-160/1.5

Customer	Date	2024-06-12	Company
Contact	Item no.		Issued by
Phone	Project		Phone
E-mail	Project ID	Proiect redenumit 2024-06-12 12:10:37	E-mail



Version	Pump type	Dimensions								Material			
		d1	d2	d3	d4	d5	L	L1	L2	1 Stationary seal ring	2 Rotary seal ring	3 Rubber	4 Frame + Spring
Standard	32-125/160/200 40-125/160/200 50-125/160/200 65-125 65-160/7.5-9.2-11	22	19	38	31	37	37.5	27.5	10	Carbon	Ceramic	NBR	EN 1.4401 (AISI 316)
	65-160/15 65-200	30	24	46	39	45	42.5	32.5	10				