Ser Hidrolik



Marine Hydraulic Cylinder

Type SHS316
Type SHS355

Ser Hidrolik

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SER HYDRAULIC MACHINES

The vision of Ser Hydraulıc Machines Engineering Electric Electronic İndustry LLC, by using modern and technological components to minimize the energy consumptıon, and making the end users gain benefits from their nonproblematic systems and to lead ot only themselves but also their clients to accomplish globally successful and uniqe projects by allowing them to be number one companies intheir area of business. In that sense, “Pioneering in Process Control Engineering” philosophy has always been kept and lighting to the future by Ser Hydraulic Machines companies technology is used.

DESIGN and R&D

Ser Hydraulic Machines are in a priciple to serve in accordance with their customers demands instructions. Accordingly; besides making modernization and renewing on existing systems, new system designs and executions are realized. Our companies employee youth, dynamaic and continuosly open to development technical personel and engineers who always focus on engineering itself. In our mentality, “Impossible is nothing” because we always keep on walking on the way of remedy.

CERTIFICATES

DNV

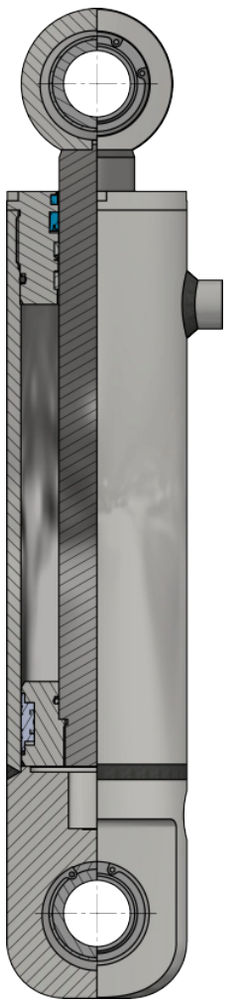
LR

BUREAU VERITAS 1828 BUREAU VERITAS

RINA







APPLICATION
Marine mobile
Pipe from Ø32-Ø160mm
Construction:(see sketch)

CYLINDER TUBE
Stainless Steel 316L 1.4404 honed To Ra max 0.3µm-tolerance H9

PISTON ROD
Stainless Steel 1.4404 316L which is hard-chrome plated min. 20-30 µm
Hardness min 850 HV
Ra max 0.4µm External tolerance f7.
Alternative 1.4418 materials can be also be supplied

SEALS
(Standart) NBR

MOUTING
CYLINDER: See design features
S Spherical bearing (Bearing stainsteel)
A Forked mounting
B Front flange
C Trunnion mounting

PISTON ROD
See design features
S Spherical bearing (bearing stainsteel)
A Fixed mounting.
G Thread
The above can be used in any combination can also be supplied with through-going piston rod,and cushioning in both ends.

CONNECTIONS
BSP thread

OPERATION PRESSURE
Max.180 Bar
Alternatively, it can be designed according to the requested pressure.

PISTON VELOCITY
Max piston velocity: 0.5 m/s For higher velocities use special seals

OPERATING TEMPERATURE
Standart NBR -35°C to +105°C
For higher/lower temperatures peratures use special seals.

PRESSURE MEDIUM
Hydraulic oil on a mineral oil base. If another medium is to be used please state when ordering.

TEST
All cylinders are pressure tested at 240 bar and tested for proper function before leaving the factory.



S





S





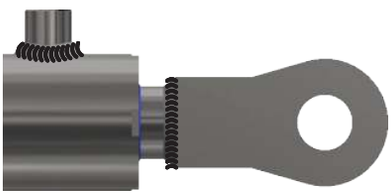
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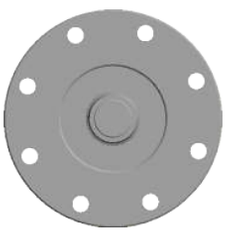
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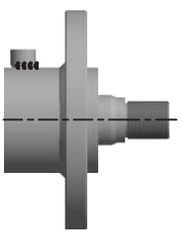


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G





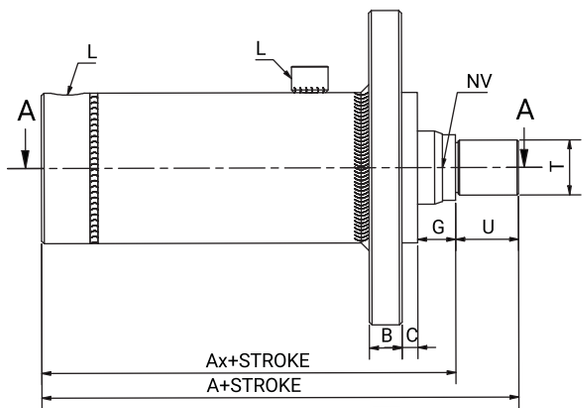
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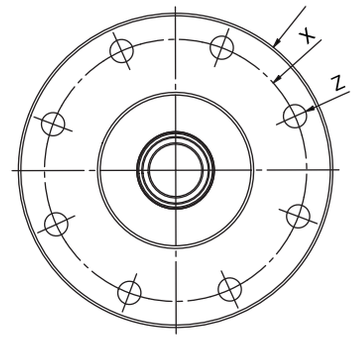


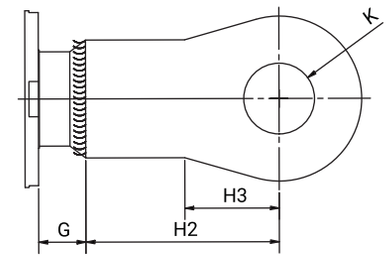


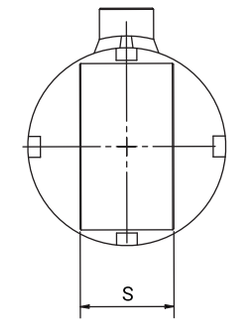
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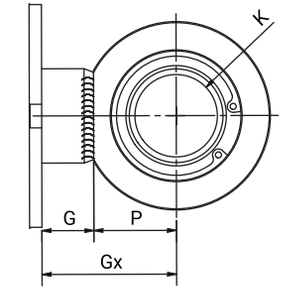
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40	158	133	20/25	50	10	25	M16X1,5	85	110	11	15	8	24	30	30	40	70	35	62	33	25	50	25	G 1/4"
50	180	153	25/30	60	15	28	M16X1,5 / M20X1,5	100	130	13,5	20	10	24	31	30	45	70	35	65	35	25	55	25	G 3/8"
60	183	153	30/35	70	15	30	M20X1,5 / M25X1,5	110	140	13,5	25	10	28	32	35	50	90	40	82	40	35	60	30	G 3/8"
63	208	168	35/40	75	20	40	M25X1,5 / M27X2	115	145	13,5	25	10	28	32	35	55	90	40	82	40	35	60	30	G 3/8"
70	213	173	40/45	80	25	40	M27X2 / M33X2	120	180	17,5	28	10	32	37	40	65	105	45	92	45	40	69	35	G 3/8"
80	234	189	40/50	100	25	45	M33X2 / M42X2	155	195	17,5	30	10	32	37	40	65	105	45	92	45	50	69	40	G 1/2"
100	275	219	50/65	120	30	56	M42X2 / M48X2	190	230	22	32	15	40	45	55	85	130	58	116	58	60	85	50	G 1/2"
110	275	219	55/70	125	30	56	M42X2 / M48X2	200	240	22	35	15	40	45	55	85	130	58	123	65	60	85	50	G 1/2"
120	284	221	60/80	140	30	63	M48X2 / M56X2	210	250	22	40	15	50	56	65	95	145	68	140	75	75	106	60	G 3/4"
125	284	221	60/80	145	30	63	M48X2 / M56X2	215	255	22	40	15	50	56	65	95	145	68	140	75	75	106	60	G 3/4"
140	331	256	70/90	160	30	75	M56X2 / M64X3	235	275	22	45	20	60	67	75	105	170	78	160	83	85	127	70	G 3/4"
160	350	265	80/100	180/190	35	85	M64X3 / M72X3	275	330	26	50	20	70	76	80	115	185	85	177	90	105	146	80	G 1"

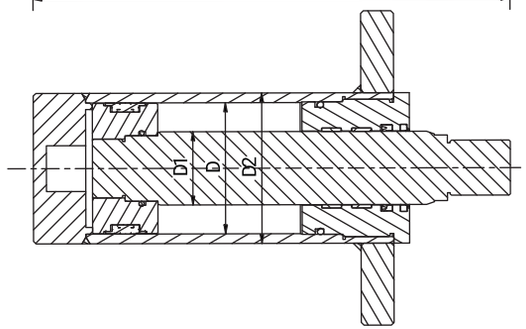


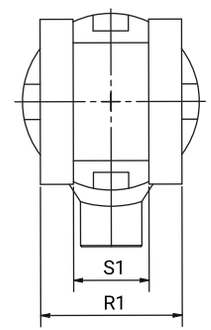


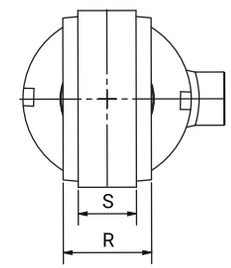


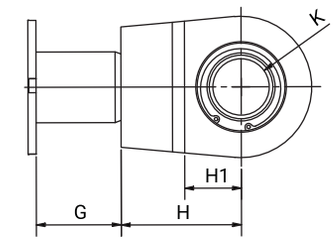








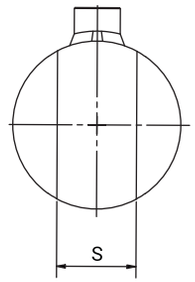


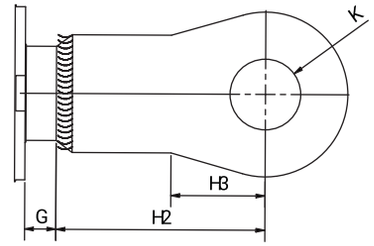


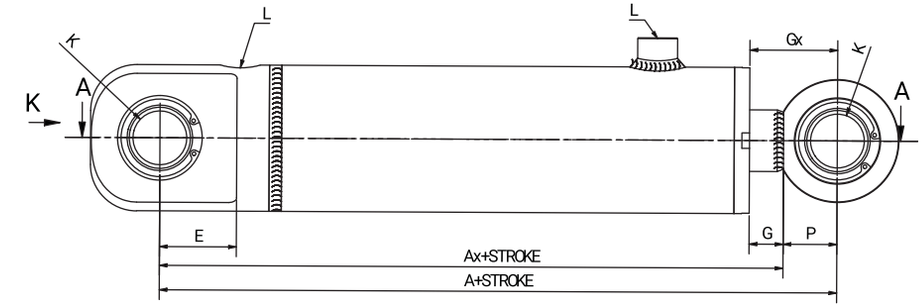
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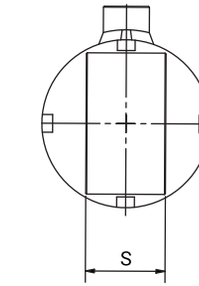
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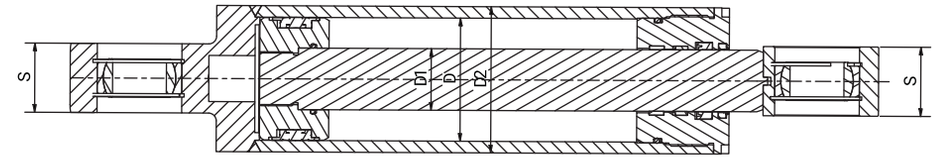
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40	178	148	20/25	50	10	25	35	M16X1,5	24	30	30	40	70	35	62	33	25	50	25	G 1/4"
50	195	165	25/30	60	15	28	35	M16X1,5 / M20X1,5	24	31	30	45	70	35	65	35	25	55	25	G 3/8"
60	208	173	30/35	70	15	30	40	M20X1,5 / M25X1,5	28	32	35	50	90	40	82	40	35	60	30	G 3/8"
63	225	205	35/40	75	20	40	40	M25X1,5 / M27X2	28	32	35	55	90	40	82	40	35	60	30	G 3/8"
70	240	200	40/45	80	25	40	45	M27X2 / M33X2	32	37	40	65	105	45	92	45	40	69	35	G 3/8"
80	255	175	40/50	100	25	45	45	M33X2 / M42X2	32	37	40	65	105	45	92	45	50	69	40	G 1/2"
100	325	270	50/65	120	30	56	65	M42X2 / M48X2	40	45	55	85	130	58	116	58	60	85	50	G 1/2"
110	325	270	55/70	125	30	56	65	M42X2 / M48X2	40	45	55	85	130	58	123	65	60	85	50	G 1/2"
120	355	290	60/80	140	30	63	70	M48X2 / M56X2	50	56	65	95	145	68	140	75	75	106	60	G 3/4"
125	355	290	60/80	145	30	63	70	M48X2 / M56X2	50	56	65	95	145	68	140	75	75	106	60	G 3/4"
140	410	335	70/90	160	30	75	80	M56X2 / M64X3	60	67	75	105	170	78	160	83	85	127	70	G 3/4"
160	435	355	80/100	180/190	35	85	90	M64X3 / M72X3	70	76	80	115	185	85	177	90	105	146	80	G 1"

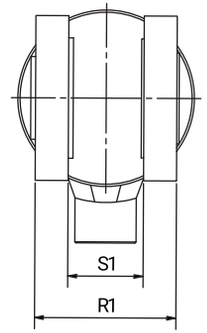


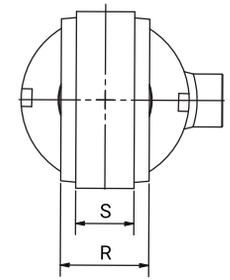


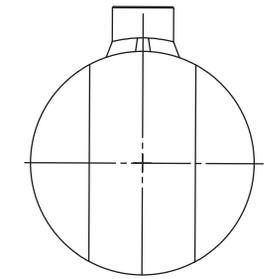


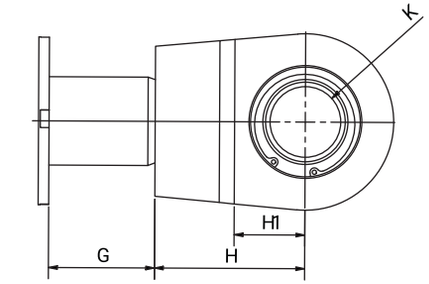


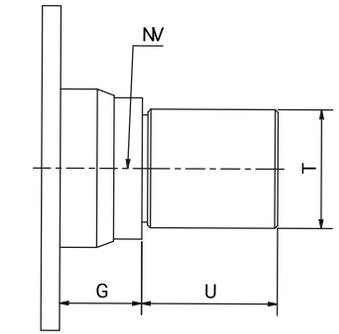






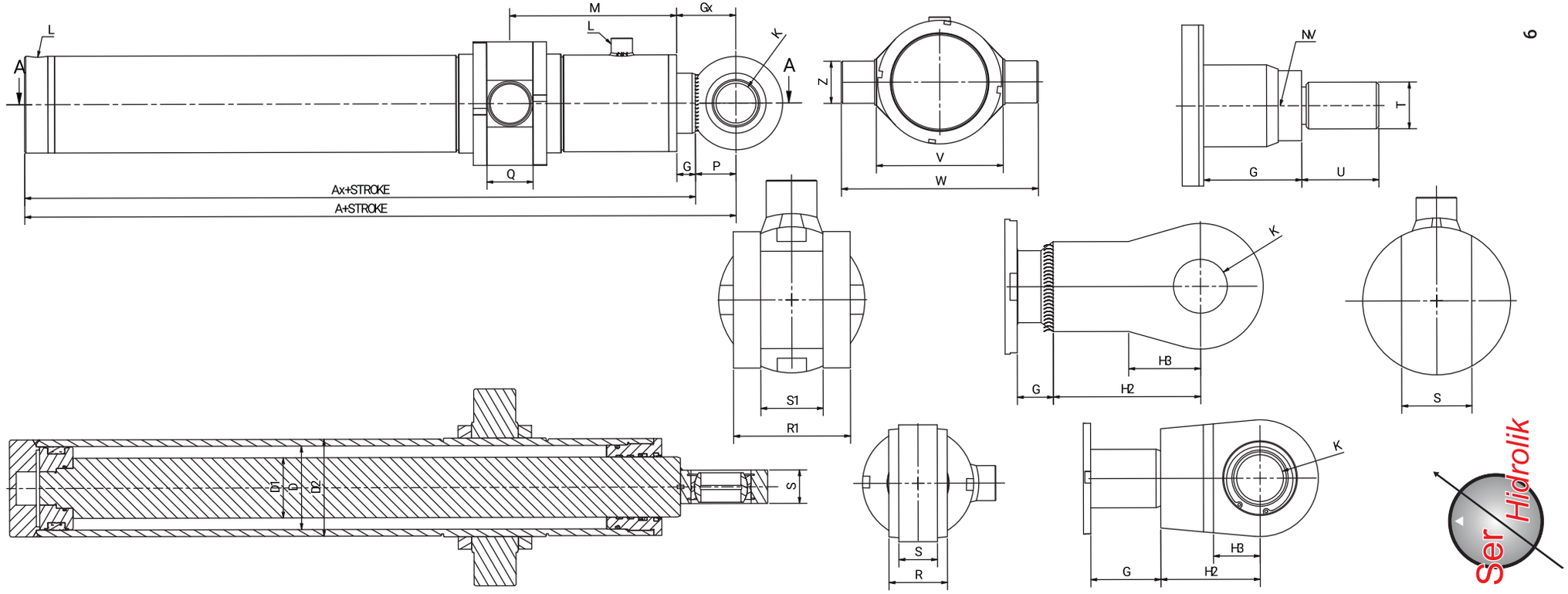






Mounting Type SHS 316

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32	158	133	20	40	10	25	60	90	20	30	20	M16X1,5	20	25	35	52	25	51	28	25	40	20	G 1/4"
40	163	133	20/25	50	10	30	70	100	25	40	25	M16X1,5	24	30	40	70	35	62	33	25	50	25	G 1/4"
50	183	153	25/30	60	15	30	85	125	30	40	28	M16X1,5 / M20X1,5	24	31	45	70	35	65	35	25	55	25	G 3/8"
60	188	153	30/35	70	15	35	95	135	35	45	30	M20X1,5 / M25X1,5	28	32	50	90	40	82	40	35	60	30	G 3/8"
63	198	163	35/40	75	20	35	105	145	35	50	40	M25X1,5 / M27X2	28	32	55	90	40	82	40	35	60	30	G 3/8"
70	213	173	40/45	80	25	40	115	165	40	55	40	M27X2 / M33X2	32	37	65	105	45	92	45	40	69	35	G 3/8"
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120	286	221	60/80	140	30	65	180	260	60	80	63	M48X2 / M56X2	50	56	95	145	68	140	75	75	106	60	G 3/4"
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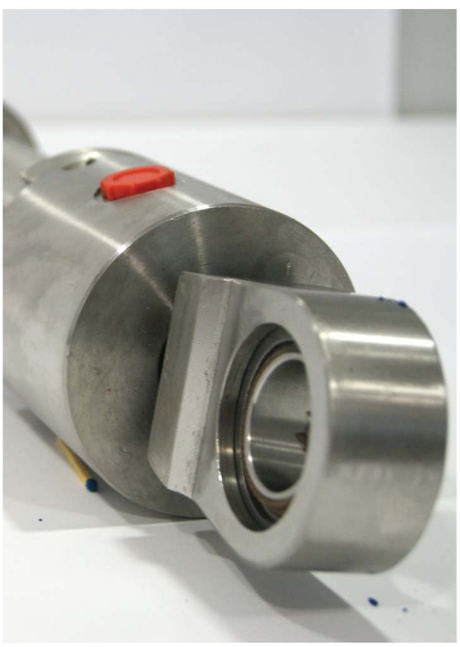
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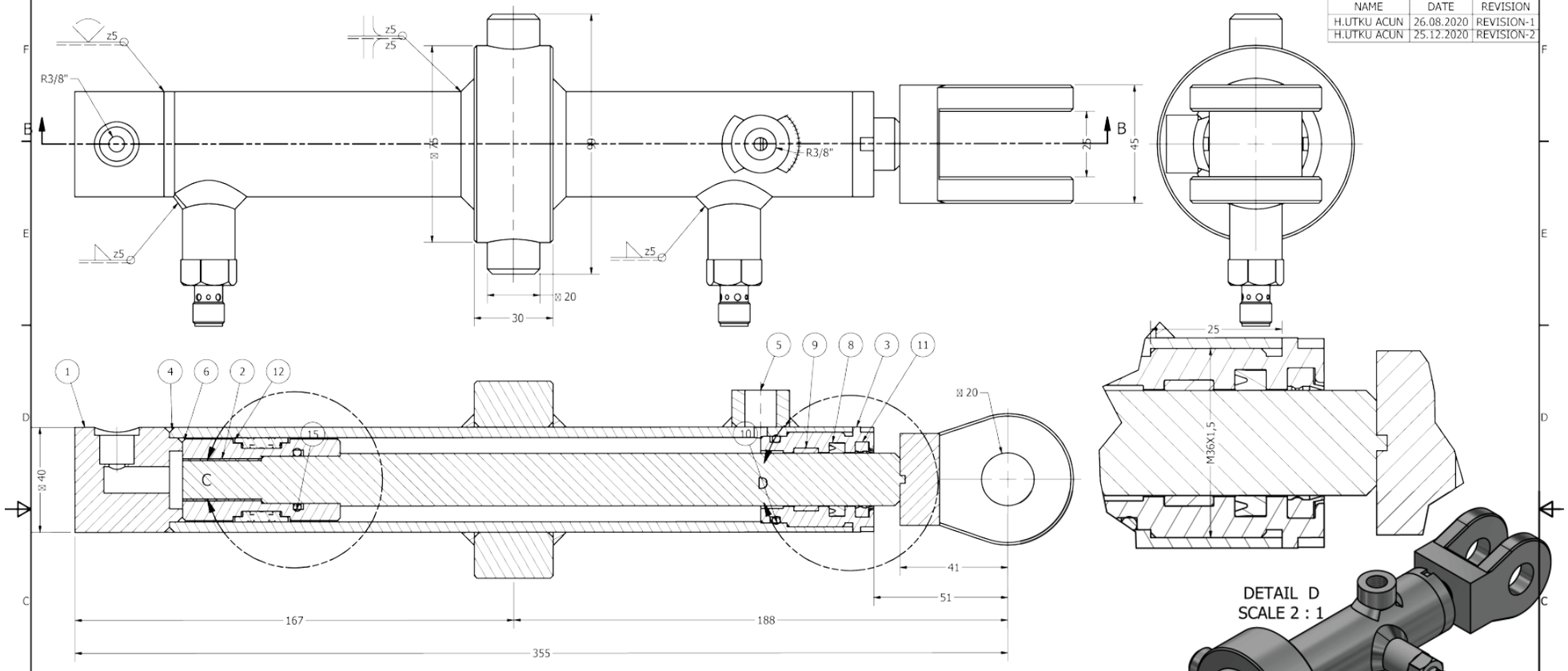




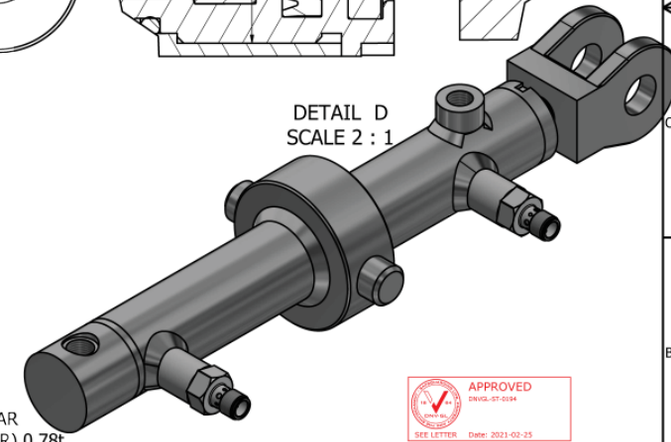
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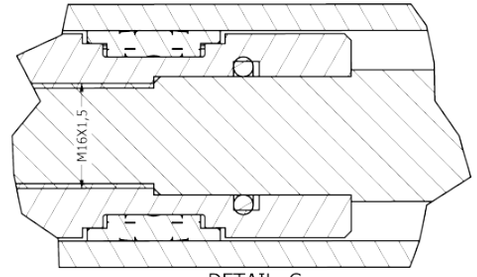
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TABLE		
NAME	DATE	REVISION
H.UTKU ACUN	26.08.2020	REVISION-1
H.UTKU ACUN	25.12.2020	REVISION-2



DETAIL D
SCALE 2 : 1





DETAIL C
SCALE 2 : 1

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	BACK OVER	316L
2	1	SHAFT	316L
3	1	THROAT	316L
4	1	PIPE	316L
5	1	SLEEVE	316L
6	1	PISTON	316L
7	1	SCALES	316L
8	1	Kastas Seals-K21-20X28X6	PU
9	1	Kastas Seals-K68-20X24X9_6	POM
10	1	Kastas Seals-KO-28X3	NBR
11	1	KASTAS-K06-20X28_6X5_3X7	PU
12	1	Kastas Seals-K18-32X24X15_5X28X3_1	NBR-POM
13	2	SENSOR SLEEVE	316-L
14	2	CAD_STP_100_0842	M9 H200
15	1	Kastas Seals-KO-18X3	NBR
16	1	FRONT JOINT	316-L

WORKING PRESSURE 160 BAR
PULLING FORCE (AT 160 BAR) **0,78t**
PUSHING FORCE (AT 160 BAR) 1,29t

2 PIECE LEFT
2 PIECE RIGHT

TABLE	
Column 1	Column 2
WORK PRESSURE	160Bar
DESING PRESSURE	240Bar
TEST PRESSURE	240Bar
DESING TEMPERATURE	-35 / +110

	Tarih / İsim		İMZA	MALZEME	
22.07.2020					
ÇİZEN	H.UTKU ACUN			AGIRLIK	
KONTROL	ORHAN YİĞİT			ADET	4
ONAY	SERKAN ALMIŞ			ÖLÇEK	

TERSAN SHIPYARD
NB1088 - HATCH LOCK 168MM
Ø32XØ20-160MM
TERAZİ + ÖN OYNAR MAFSAL

SİLİNDİR NO: SHS-3002/20

APPROVED
DNVGL-ST-0194
SEE LETTER Date: 2021-02-25

Ser Hidrolik

EATON
Powering Business Worldwide

DNV·GL

Tersan Tersanecilik Sanayi ve Ticaret A.S.
Att: spolat@tersan.com.tr
Aci Cesme Mevkii
Bogazici Cd. No:28
Tavsanli/Altinova
000000 Yalova
Turkey

DNV GL AS
Offshore Classification
Lifting Appliances
Veritasveien 1
1363 Høvik
Norway

Date:	**Our reference**:	**Your reference**:	**Job ID:**
2021-02-25	M-OA-LA/KHALK/ D39640-J-1789	NB1088 HYDRAULIC CYLINDER FOR 6 CARGO WATERTIGHT HATCHES	A0842222-2

BJØRG PAULINE, ID D39640
Design review of changed rod end eye

Reference is made to your letter NB1088 HYDRAULIC CYLINDER FOR 6 CARGO WATERTIGHT HATCHES dated 2021-02-25, and e-mail dated 2021-02-15. The following document is stamped 2021-02-25 and given the status as shown below:

Document No	Rev	DNV GL No	Title	Code	Status
SHS-3002/20	2	1320	Hatch lock 32/20-160		Approved

Document No. **SHS-3002/20/2**, "Hatch lock 32/20-160" has been reviewed in accordance with DNVGL-ST-0194, with the following comment:

558 **Scope of work** **Important Note**
scope: Design of rod end eye has been changed and reviewed in this approval.

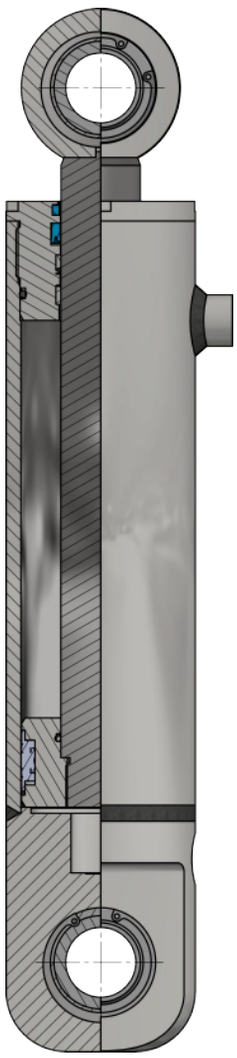
Reference is made to our previous approval, our ref.: M-OA-LA/KHALK/D39640-J-1613

Sincerely
for DNV GL AS

Aldo Matteucci
Head of Section

Khurram Saeed Khaliq
Approval Engineer

Copy To: Sevket.Ozcam@dnvgl.com



APPLICATION
Marine mobile
Pipe from Ø32-Ø320mm
Construction:(see sketch)

CYLINDER TUBE
Carbon Steel E355+SR honed To Ra max 0.3µm-tolerance H8
Metalizing coating is made on the pipe upon request.

PISTON ROD
Stainless Steel 1.4404 316L which is hard-chrome plated min. 20-30 µm
Hardness min 850 HV
Ra max 0.4µm External tolerance f7.
Alternative 1.4418 materials can be also be supplied

SEALS
(Standart) NBR

MOUTING
CYLINDER: See design features
S Spherical bearing (Bearing stainsteel)
A Forked mounting
B Front flange
C Trunnion mounting

PISTON ROD
See design features
S Spherical bearing (bearing stainsteel)
A Fixed mounting.
G Thread
The above can be used in any combination can also be supplied with through-going piston rod and cushioning in both ends.

CONNECTIONS
BSP thread

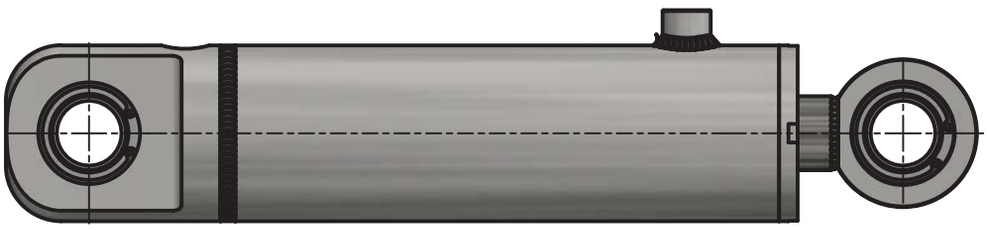
OPERATION PRESSURE
Max.250 Bar
Alternatively, it can be designed according to the requested pressure.

PISTON VELOCITY
Max piston velocity: 0.5 m/s For higher velocities use special seals

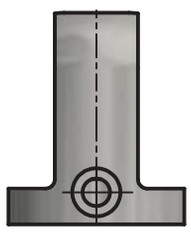
OPERATING TEMPERATURE
Standart NBR -35°C to +105°C
For higher/lower temperatures peratures use special seals.

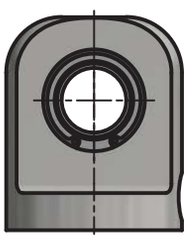
PRESSURE MEDIUM
Hydraulic oil on a mineral oil base. If another medium is to be used please state when ordering.

TEST
All cylinders are pressure tested at 240 bar and tested for proper function before leaving the factory.



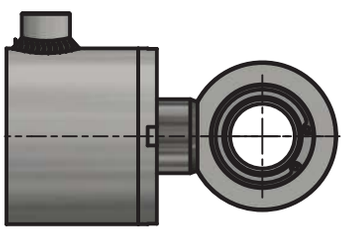
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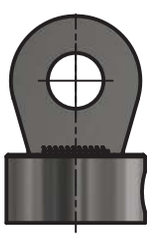
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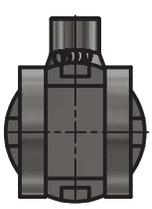


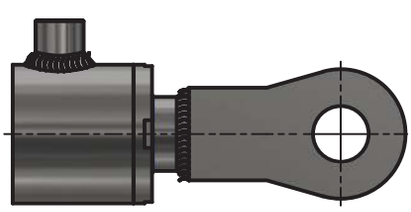
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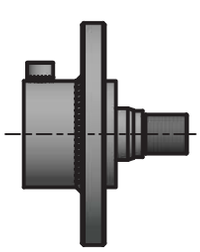


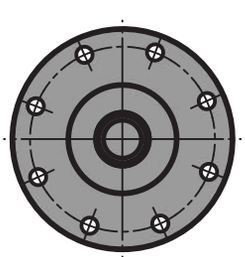
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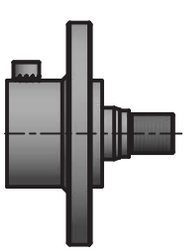


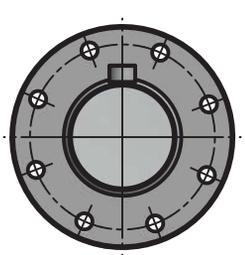
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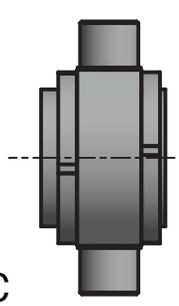


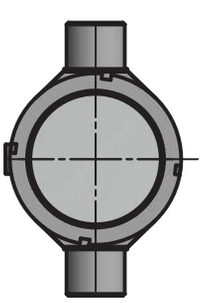
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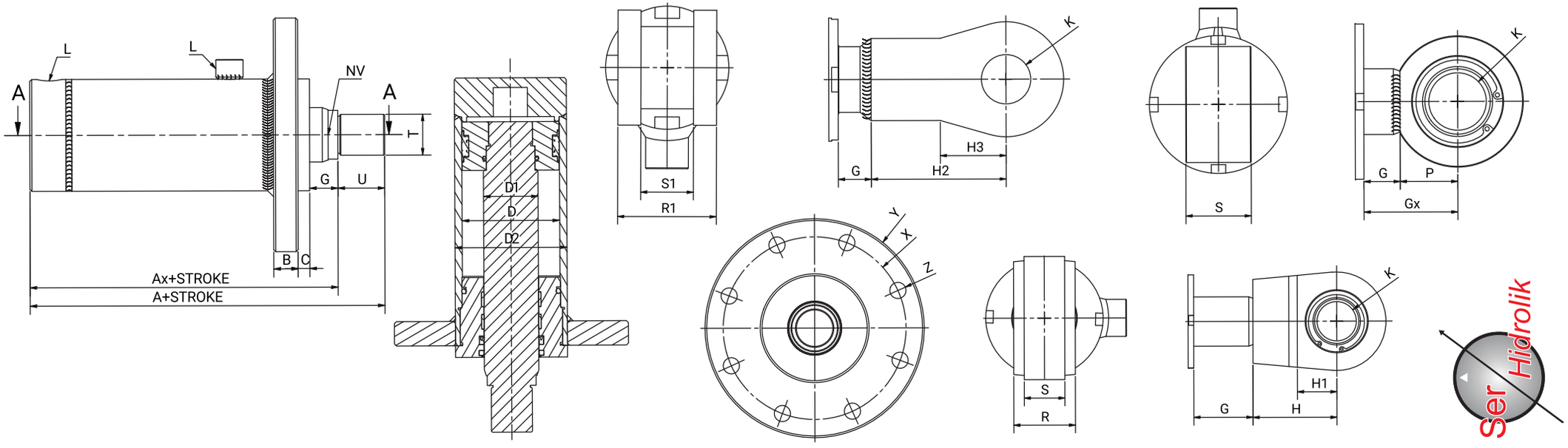
C





Mounting Type SHS355

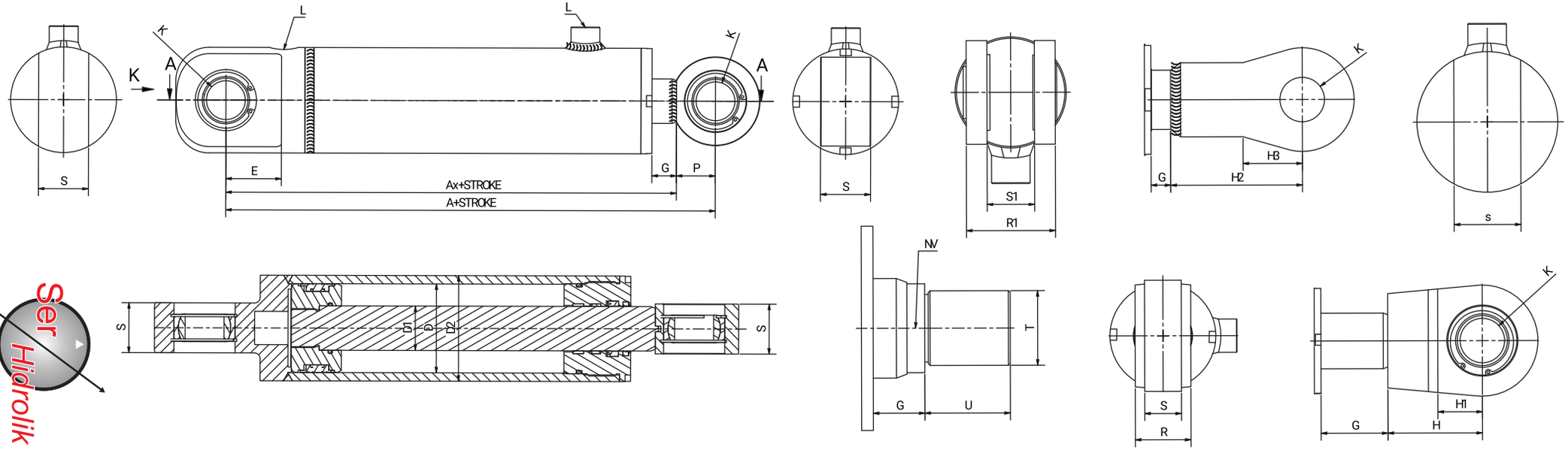
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32	153	133	20	40	10	20	M16X1,5	65	80	9	15	8	20	25	25	35	52	25	51	28	25	40	20	G 1/4"
40	158	133	20/25	50	10	25	M16X1,5	85	110	11	15	8	24	30	30	40	70	35	62	33	25	50	25	G 1/4"
50	180	153	25/30	60	15	28	M16X1,5 / M20X1,5	100	130	13,5	20	10	24	31	30	45	70	35	65	35	25	55	25	G 3/8"
60	183	153	30/35	70	15	30	M20X1,5 / M25X1,5	110	140	13,5	25	10	28	32	35	50	90	40	82	40	35	60	30	G 3/8"
63	208	168	35/40	75	20	40	M25X1,5 / M27X2	115	145	13,5	25	10	28	32	35	55	90	40	82	40	35	60	30	G 3/8"
70	213	173	40/45	80	25	40	M27X2 / M33X2	120	180	17,5	28	10	32	37	40	65	105	45	92	45	40	69	35	G 3/8"
80	234	189	40/50	100	25	45	M33X2 / M42X2	155	195	17,5	30	10	32	37	40	65	105	45	92	45	50	69	40	G 1/2"
100	275	219	50/65	120	30	56	M42X2 / M48X2	190	230	22	32	15	40	45	55	85	130	58	116	58	60	85	50	G 1/2"
110	275	219	55/70	125	30	56	M42X2 / M48X2	200	240	22	35	15	40	45	55	85	130	58	123	65	60	85	50	G 1/2"
120	284	221	60/80	140	30	63	M48X2 / M56X2	210	250	22	40	15	50	56	65	95	145	68	140	75	75	106	60	G 3/4"
125	284	221	60/80	145	30	63	M48X2 / M56X2	215	255	22	40	15	50	56	65	95	145	68	140	75	75	106	60	G 3/4"
140	331	256	70/90	160	30	75	M56X2 / M64X3	235	275	22	45	20	60	67	75	105	170	78	160	83	85	127	70	G 3/4"
160	350	265	80/100	180/190	35	85	M64X3 / M72X3	275	330	26	50	20	70	76	80	115	185	85	177	90	105	146	80	G 1"
180	350	265	100/110	210/220	35	85	M72X3 / M80X3	300	355	35	55	20	70	76	85	120	185	88	180	93	105	146	80	G 1"
200	365	270	110/120	220/230	40	95	M80X3 / M85X3	330	390	35	55	20	80	92	90	130	195	95	192	105	124	172	90	G 1"
250	435	325	120/160	300/320	40	110	M90X3 / M100X3	420	505	40	65	20	90	112	125	165	270	132	256	142	172	212	120	G 1 1/4"
300	450	335	120/180	350	50	115	M100X3 / M110X3	485	575	50	75	30	100	142	155	205	295	159	283	169	230	242	140	G 1 1/4"
320	460	410	140/220	370	50	125	M110X3 / M125X3	510	600	50	75	30	115	162	165	215	320	168	305	178	260	277	160	G 1 1/4"



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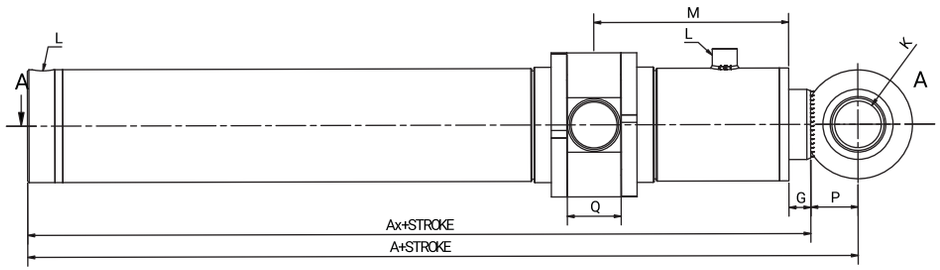
Mounting Type SHS355

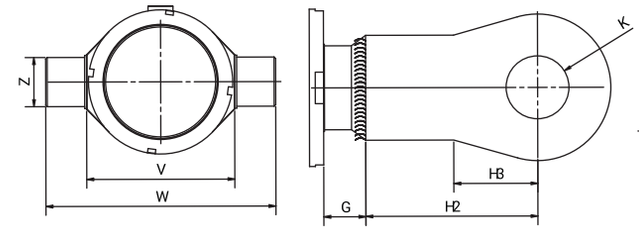
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40	178	148	20/25	50	10	25	35	M16X1,5	24	30	30	40	70	35	62	33	25	50	25	G 1/4"
50	195	165	25/30	60	15	28	35	M16X1,5 / M20X1,5	24	31	30	45	70	35	65	35	25	55	25	G 3/8"
60	208	173	30/35	70	15	30	40	M20X1,5 / M25X1,5	28	32	35	50	90	40	82	40	35	60	30	G 3/8"
63	225	205	35/40	75	20	40	40	M25X1,5 / M27X2	28	32	35	55	90	40	82	40	35	60	30	G 3/8"
70	240	200	40/45	80	25	40	45	M27X2 / M33X2	32	37	40	65	105	45	92	45	40	69	35	G 3/8"
80	255	175	40/50	100	25	45	45	M33X2 / M42X2	32	37	40	65	105	45	92	45	50	69	40	G 1/2"
100	325	270	50/65	120	30	56	65	M42X2 / M48X2	40	45	55	85	130	58	116	58	60	85	50	G 1/2"
110	325	270	55/70	125	30	56	65	M42X2 / M48X2	40	45	55	85	130	58	123	65	60	85	50	G 1/2"
120	355	290	60/80	140	30	63	70	M48X2 / M56X2	50	56	65	95	145	68	140	75	75	106	60	G 3/4"
125	355	290	60/80	145	30	63	70	M48X2 / M56X2	50	56	65	95	145	68	140	75	75	106	60	G 3/4"
140	410	335	70/90	160	30	75	80	M56X2 / M64X3	60	67	75	105	170	78	160	83	85	127	70	G 3/4"
160	435	355	80/100	180/190	35	85	90	M64X3 / M72X3	70	76	80	115	185	85	177	90	105	146	80	G 1"
180	450	360	100/110	210/220	35	85	90	M72X3 / M80X3	70	76	85	120	185	88	180	93	105	146	80	G 1"
200	490	390	110/120	220/230	40	95	100	M80X3 / M85X3	80	92	90	130	195	95	192	105	124	172	90	G 1"
250	615	455	120/160	300/320	40	110	160	M90X3 / M100X3	90	112	125	165	270	132	256	142	172	212	120	G 1 1/4"
300	695	515	120/180	350	50	115	180	M100X3 / M110X3	100	142	155	205	295	159	283	169	230	242	140	G 1 1/4"
320	765	565	140/220	370	50	125	200	M110X3 / M125X3	115	162	165	215	320	168	305	178	260	277	160	G 1 1/4"

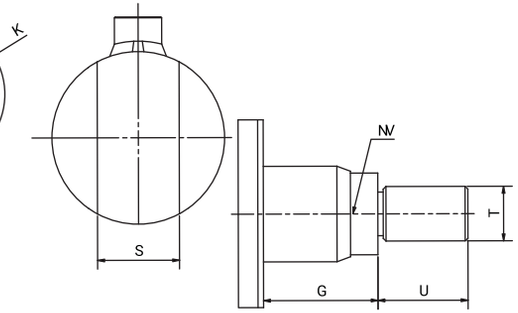


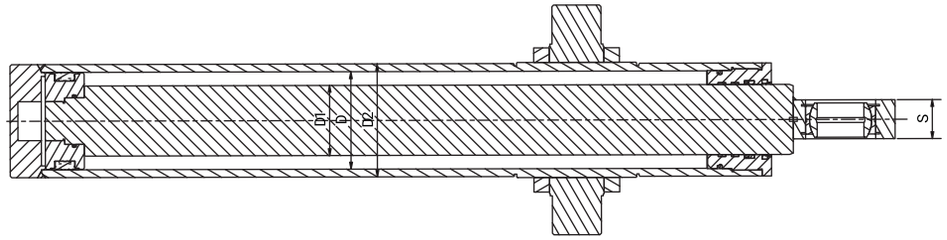
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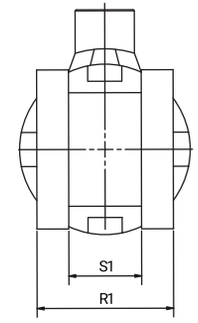
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32	158	133	20	40	10	25	60	90	20	30	20	M16X1,5	20	25	35	52	25	51	28	25	**40**	20	G 1/4"
40	163	133	20/25	50	10	30	70	100	25	40	25	M16X1,5	24	30	40	70	35	62	33	25	**50**	25	G 1/4"
50	183	153	25/30	60	15	30	85	125	30	40	28	M16X1,5 / M20X1,5	24	31	45	70	35	65	35	25	**55**	25	G 3/8"
60	188	153	30/35	70	15	35	95	135	35	45	30	M20X1,5 / M25X1,5	28	32	50	90	40	82	40	35	**60**	30	G 3/8"
63	198	163	35/40	75	20	35	105	145	35	50	40	M25X1,5 / M27X2	28	32	55	90	40	82	40	35	**60**	30	G 3/8"
70	213	173	40/45	80	25	40	115	165	40	55	40	M27X2 / M33X2	32	37	65	105	45	92	45	40	**69**	35	G 3/8"
80	229	189	40/50	100	25	40	125	175	40	55	45	M33X2 / M42X2	32	37	65	105	45	92	45	50	**69**	40	G 1/2"
100	274	219	50/65	120	30	55	150	200	50	70	56	M42X2 / M48X2	40	45	85	130	58	116	58	60	**85**	50	G 1/2"
110	274	219	55/70	125	30	55	165	235	55	75	56	M42X2 / M48X2	40	45	85	130	58	123	65	60	**85**	50	G 1/2"
120	286	221	60/80	140	30	65	180	260	60	80	63	M48X2 / M56X2	50	56	95	145	68	140	75	75	**106**	60	G 3/4"
125	286	221	60/80	145	30	65	190	270	60	80	63	M48X2 / M56X2	50	56	95	145	68	140	75	75	**106**	60	G 3/4"
140	331	256	70/90	160	30	75	215	300	70	90	75	M56X2 / M64X3	60	67	105	170	78	160	83	85	**127**	70	G 3/4"
160	345	265	80/100	180/190	35	80	245	350	80	100	85	M64X3 / M72X3	70	76	115	185	85	177	90	105	**146**	80	G 1"
180	350	265	100/110	210/220	35	85	270	380	90	110	85	M72X3 / M80X3	70	76	120	185	88	180	93	105	**146**	80	G 1"
200	360	270	110/120	220/230	40	90	295	405	95	115	95	M80X3 / M85X3	80	92	130	195	95	192	105	124	**172**	90	G 1"
250	420	295	120/160	300/320	40	125	390	590	140	160	110	M90X3 / M100X3	90	112	165	270	132	256	142	172	**212**	120	G 1 1/4"
300	490	335	120/180	350	50	155	440	680	160	180	115	M100X3 / M110X3	100	142	205	295	159	283	169	230	**242**	140	G 1 1/4"
320	530	365	140/220	370	50	165	460	720	180	200	125	M110X3 / M125X3	115	162	215	320	168	305	178	260	**277**	160	G 1 1/4"

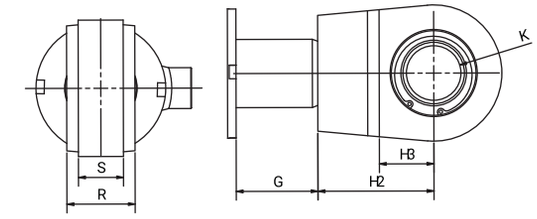












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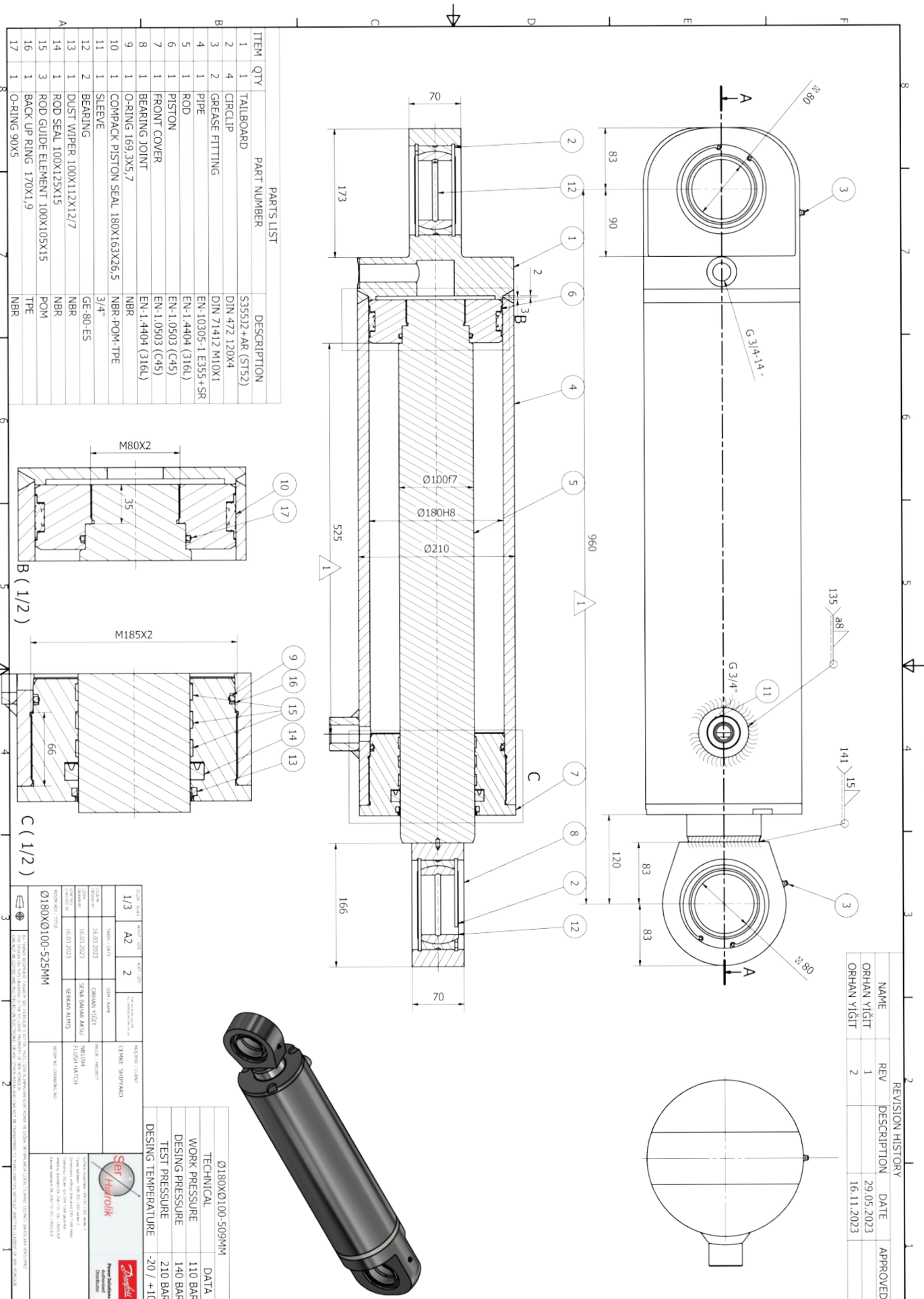








Certified Technical Drawing Type SHS355



DNV

CERTIFICATE
FOR HYDRAULIC CYLINDER

Certificate No:
N142HFCZ

This is to certify

that the product:	**2 x HYDRAULIC CYLINDER**
Type designation:	**Ø180XØ100-525MM**
Application/context:	**FLUSH HATCH**
Serial/tag no:	**SHS-4808123-1** **SHS-4808123-2**

Has been found to comply with relevant requirements in:
Rules for classification: Ships (2021-07)

The product is intended for

Yard:	**Cemre Marin Endustri A.S.**
Yard No:	**NB1094**
Name of vessel:	**ESVAGT ROBERT BOYLE**
DNV Id No:	**44788**

The product / material has been marked: N142HFCZ on: HYDRAULIC CYLINDER

Particulars of Vendor and Purchaser

Vendor:	**SER HİDROLİK MAKİNA MÜH. ELEK. ELETRONİK SAN. Ve TİC. LTD.STİ**
Vendor reference:	**CYLINDER APPROVAL (NB1094 FLUSH HATCH)**
Purchaser:	
Purchaser reference:	

Issued at **Istanbul** on **2024-06-03**

for **DNV**

This document has been digitally signed and will therefore not have handwritten signatures

Öztürk, Imran
Surveyor

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Loyd App. Certified Marine Hydraulics Cylinder Reference

	PROJECTS	APPROVAL OF HYD. CYL	SER HYD. MAN. TYPE
1	NB67/ 6500 CBM LIVE FISHING CARRIER 15 000 CBM/24H RO INTERSHIP / NORWAY WATERTIGHT HATCH CERTIFIED HYD. CYL.	BUREAU VERITAS	SHS316
2	NB66 / 4000 CBM LIVE FISHING CARRIER INTERSHIP / NORWAY WATERTIGHT HATCH CERTIFIED HYD. CYL.	BUREAU VERITAS	SHS316
3	NB 64-65 / 5000 CBM LIVE FISH CARRIER INTERSHIP / NORWAY WATERTIGHT HATCH CERTIFIED HYD. CYL.	DNV	SHS316
4	NB1088 / LNG FUELLED LIVE FISH CARRIER NORDLAKS / NORWAY MMC SYSTEM CERTIFIED HYD. CYL.	DNV	SHS316
5	NB1089 / LNG FUELLED LIVE FISH CARRIER NORDLAKS / NORWAY MMC SYSTEM CERTIFIED HYD. CYL.	DNV	SHS316
6	NB1105 / FREEZER STERN TRAWLER (w/ FACTORY) P/F HAVBORG / FAROE ISLANDS WATERTIGHT HATCH CERTIFIED HYD. CYL.	DNV	SHS355
7	NB73 / MIDWATER TRAWLER ATLANTIC DAWN / IRELAND TRAWL DECK AREA CERTIFIED HYD. CYL.	BUREAU VERITAS	SHS355
8	NB71 / MIDWATER TRAWLER ATLANTIC DAWN / IRELAND TRAWL DECK AREA CERTIFIED HYD. CYL.	DNV	SHS355
9	NB70 / MIDWATER TRAWLER ATLANTIC DAWN / IRELAND TRAWL DECK AREA CERTIFIED HYD. CYL.	BUREAU VERITAS	SHS355
10	NB1094 / OFFSHORE VESSEL NORWAY FLUSH HATCH CERTIFIED HYD. CYL	DNV	SHS355
11	NB1094 / OFFSHORE VESSEL NORWAY FLUSH HATCH CERTIFIED HYD. CYL	DNV	SHS355

Marine Hydraulics Cylinder Reference

	PROJECTS	APPROVAL OF HYD. CYL	SER HYD. MAN. TYPE
1	NB1098 / LONGLINER FACTORY FISHING VESSEL ØSTERFJORD AS / NORWAY EMG.CLOSING DOOR HYD. CYL	SER HYD.	SHS355
2	NB1063/ IMR and SUBSEA CONSTRUCTION VESSEL VOLSTAD SHIPPING AS / NORWAY HELICOPTER AREA HYD. CYL.	SER HYD.	SHS355
3	NB 61-62 / STUN AND BLEED VESSELS NAPIER / NORWAY MAIN HATCH HYD. CYL.	SER HYD.	SHS355
4	NB1015 / FREEZER STERN TRAWLER (w/ FACTORY) HAVBRYN AS / NORWAY TRAWL DECK AREA HYD. CYL.	SER HYD.	SHS355
5	NB1020 / FREEZER STERN TRAWLER (w/ FACTORY) VOLSTAD AS / NORWAY TRAWL DECK AREA HYD. CYL.	SER HYD.	SHS355
6	NB1016 / FREEZER STERN TRAWLER (w/ FACTORY) HAVBRYN AS / NORWAY TRAWL DECK AREA HYD. CYL.	SER HYD.	SHS355
7	NB63 / 4500 CBM LIVE FISH CARRIER FRØY / NORWAY RSW HOLD HYD. CYL. WITH SENSOR	SER HYD.	SHS355
8	NB78 / PELAGIC TRAWLER LIE GRUPPEN AS / NORWAY TRAWL DECK AREA HYD. CYL.	SER HYD.	SHS355
9	NB75 / PURSE SEINER / TRAWLER SORHEIM HOLDING AS / NORWAY TRAWL DECK AREA HYD. CYL.	SER HYD.	SHS355
10	NB74/ PURSE SEINER / TRAWLER TEIGE REDERI AS / NORWAY TRAWL DECK AREA HYD. CYL.	SER HYD.	SHS355
11	NB1061/ FREEZER STERN TRAWLER (w/ FACTORY) KIRKELLA LIMITED / UNITED KINGDOM TRAWL DECK AREA HYD. CYL.	SER HYD.	SHS355

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