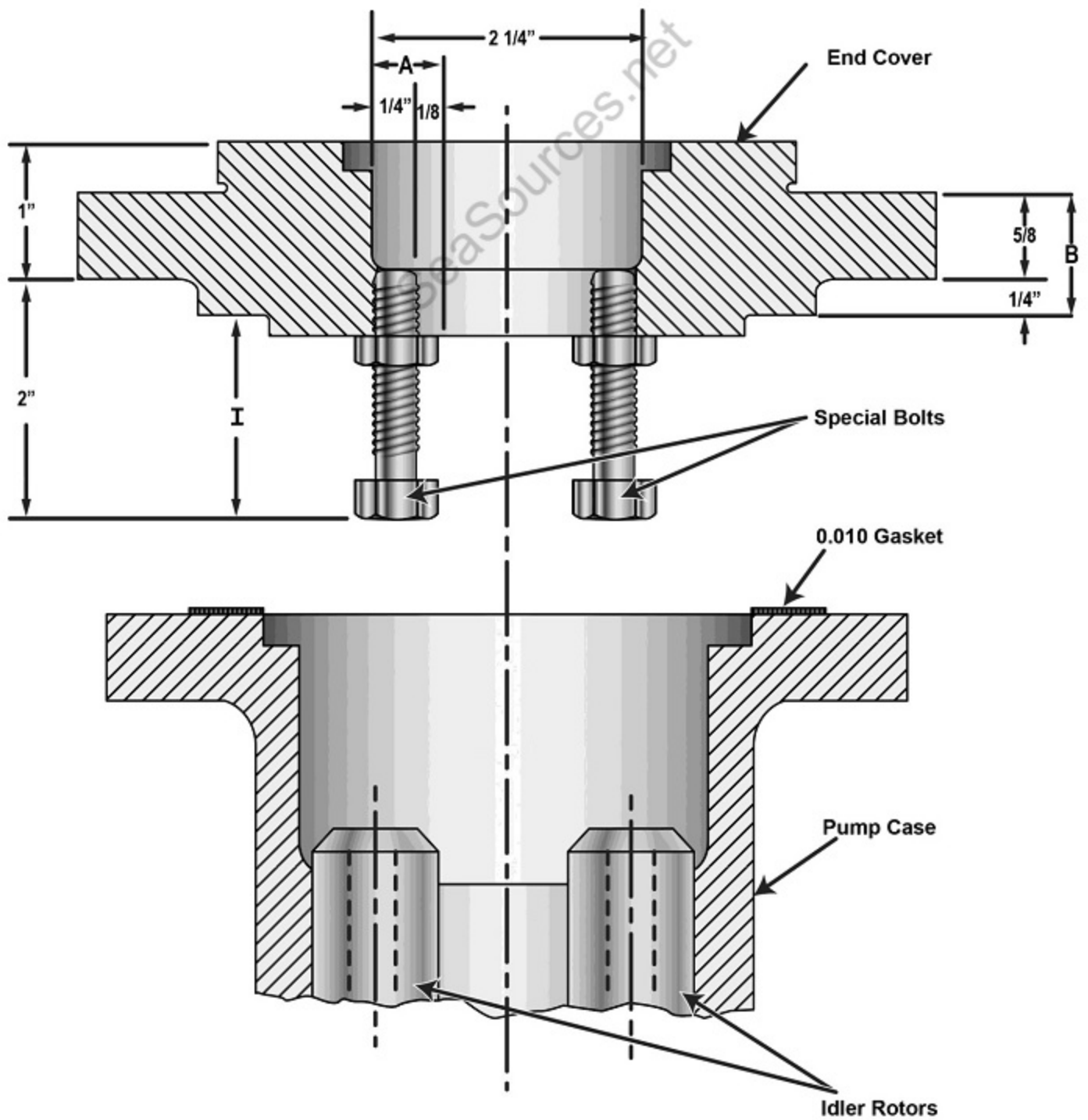
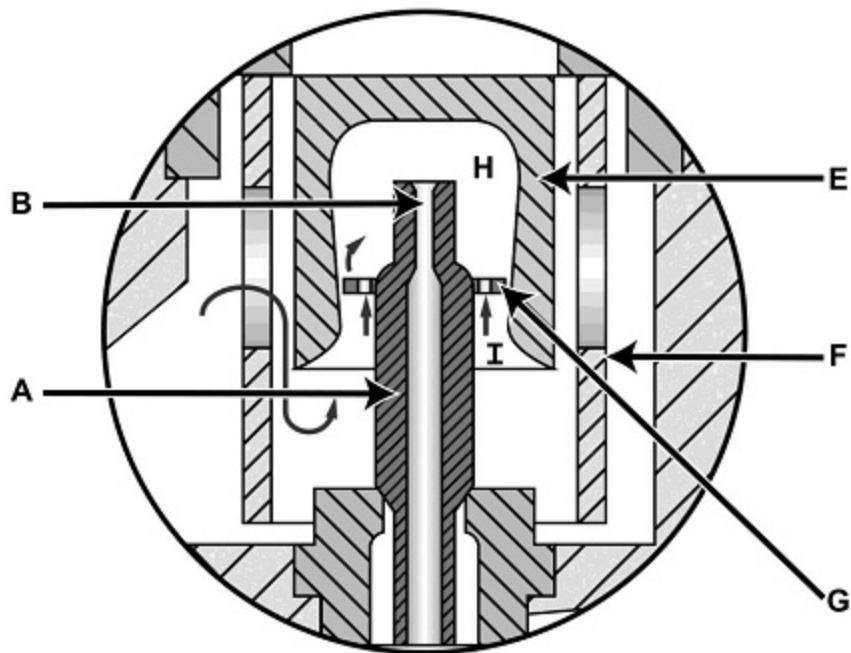
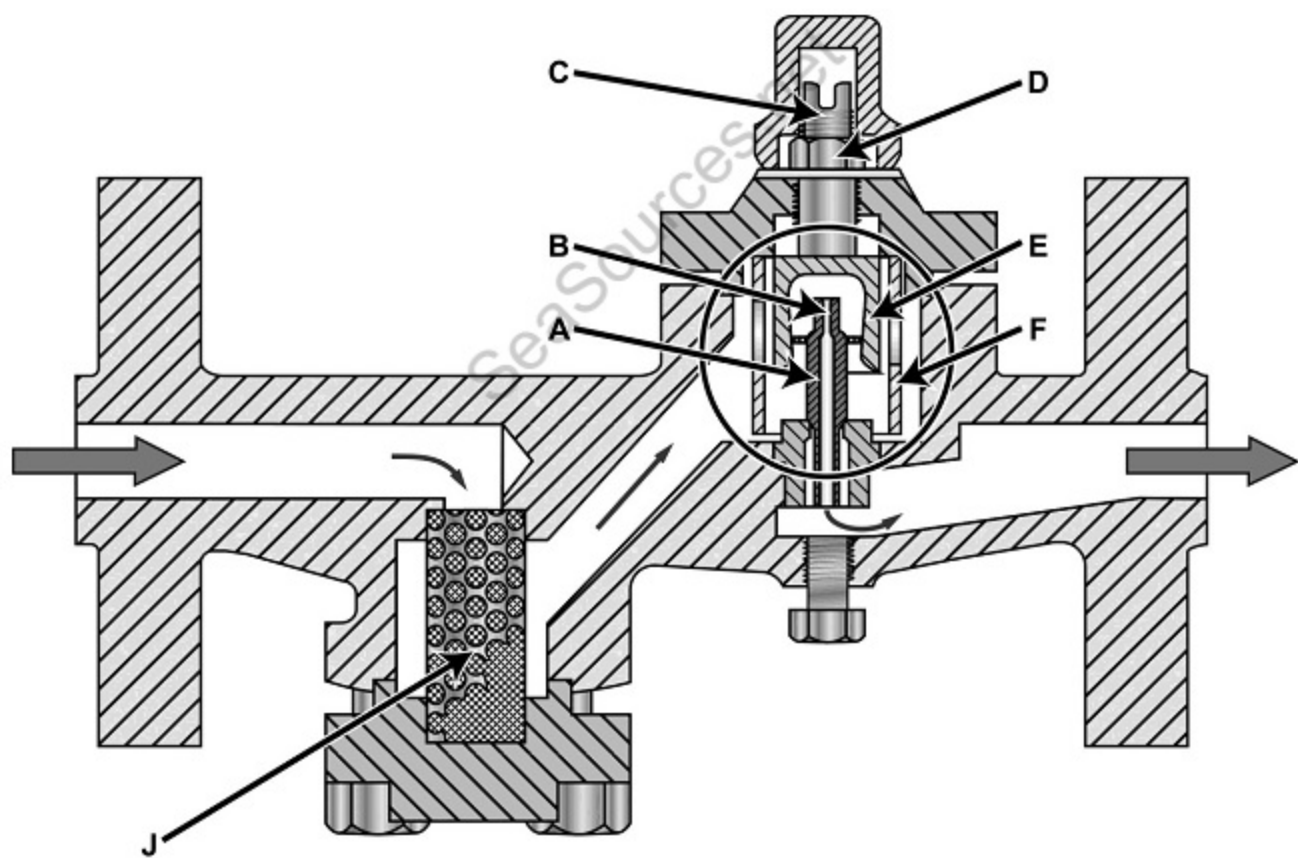


GS-0001

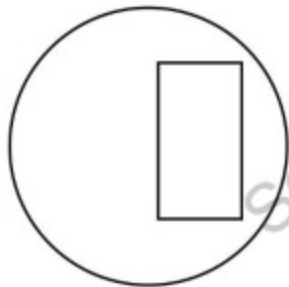


GS-0002

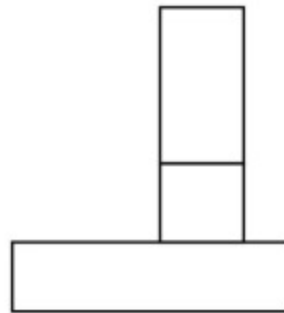


GS-0003

Top
View

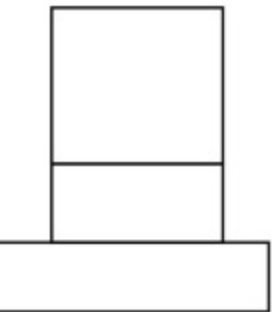


Front
View

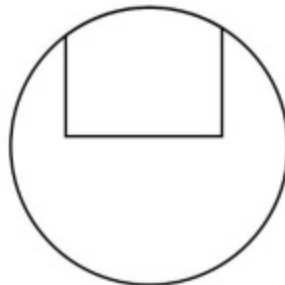


Possible Right
Side View

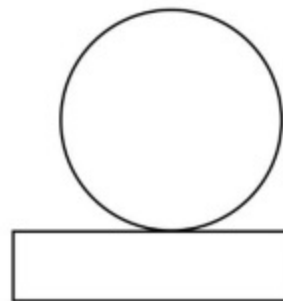
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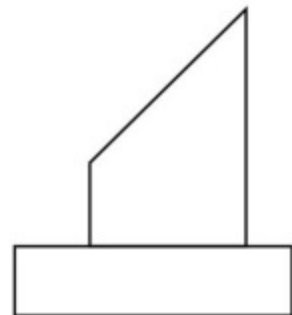
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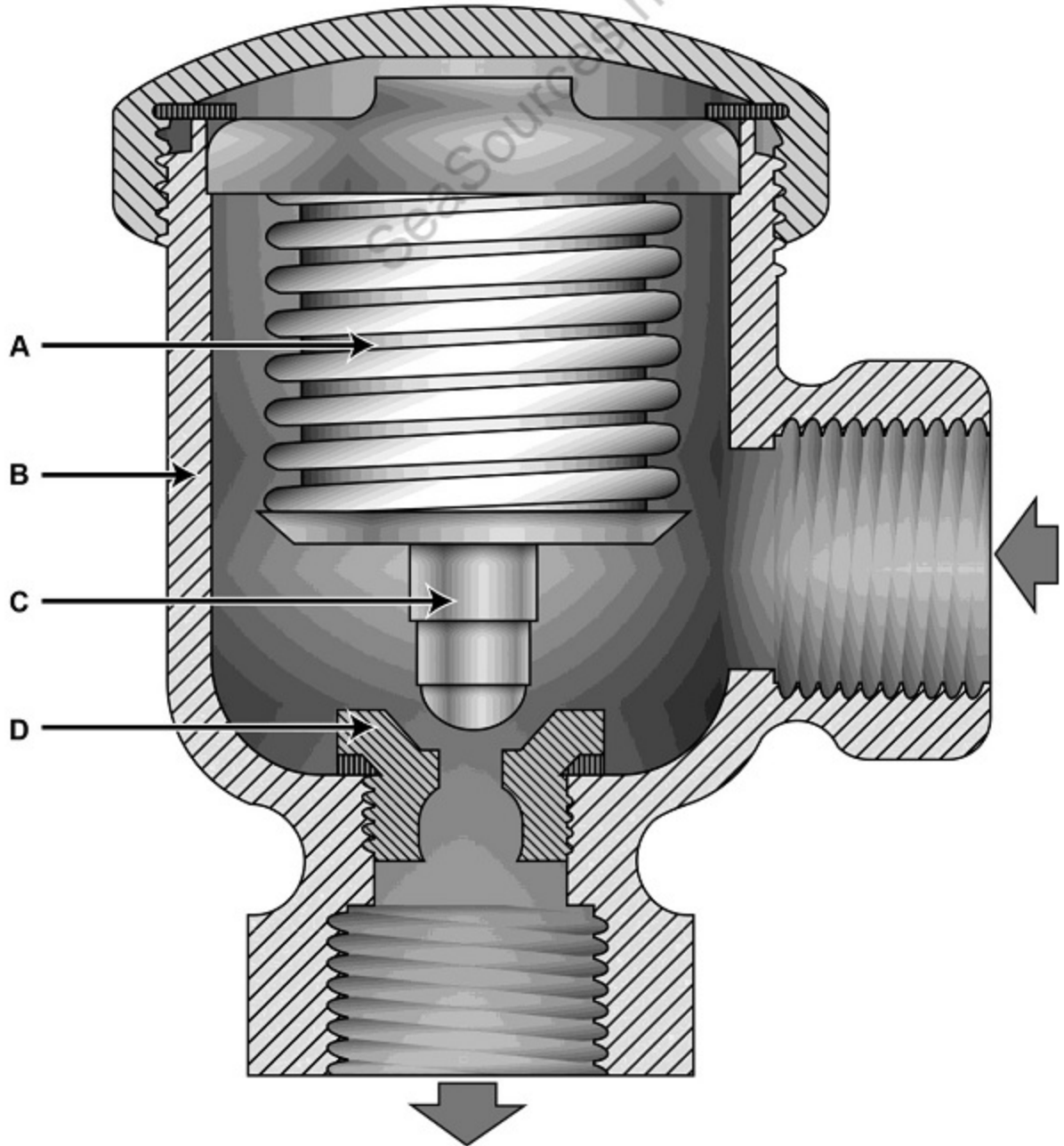
3



4

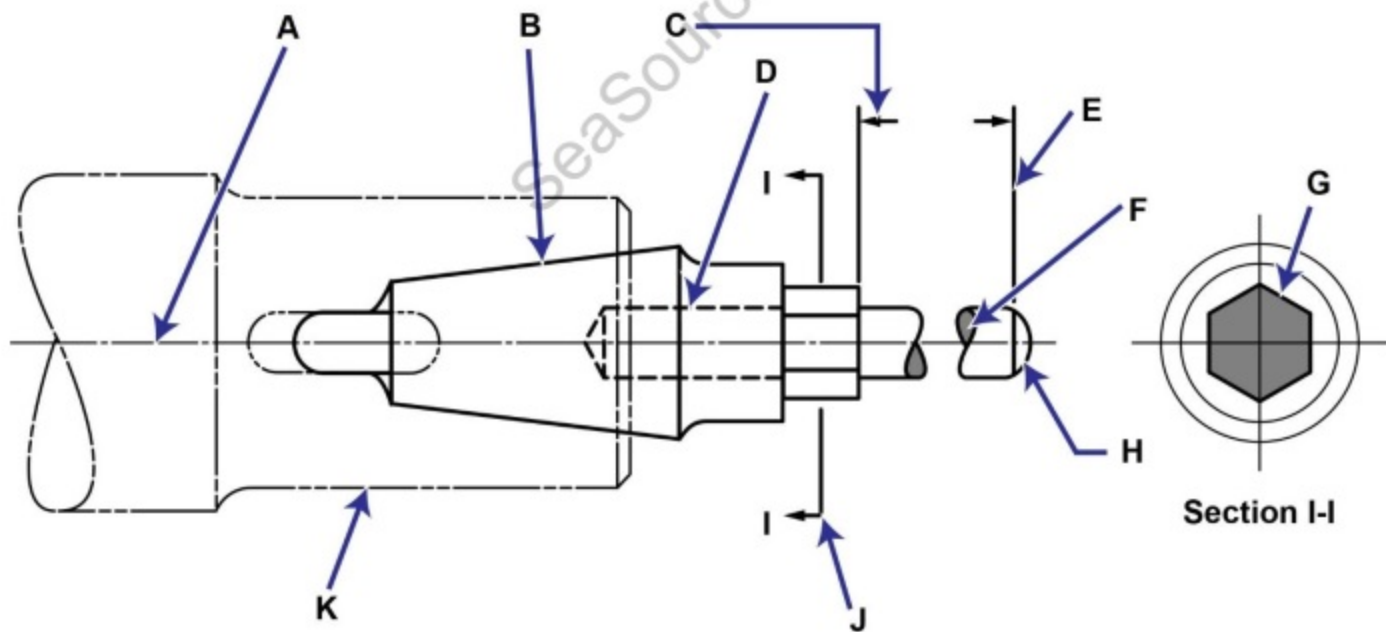


GS-0005

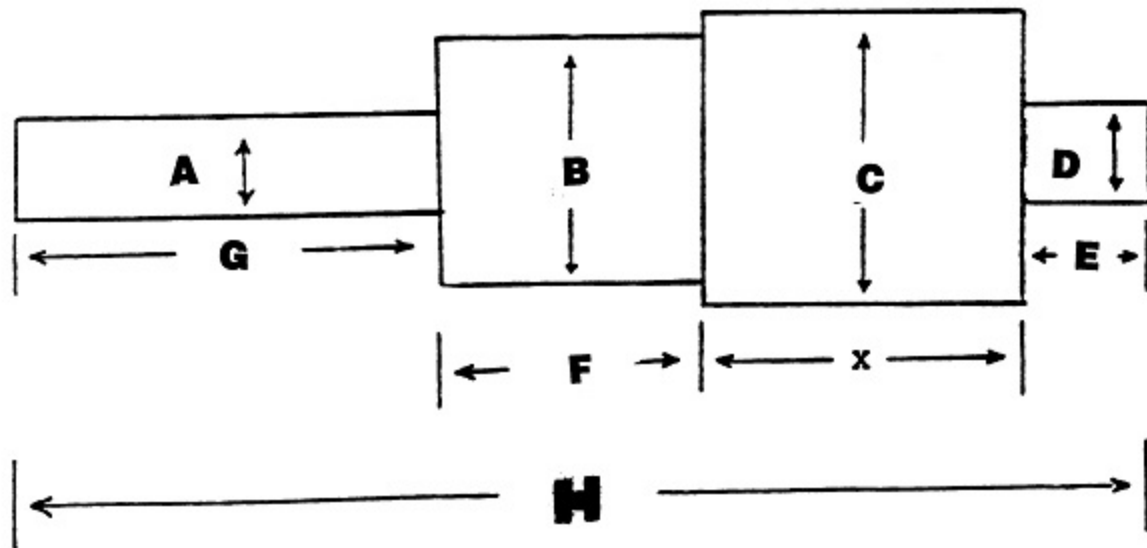


GS-0006

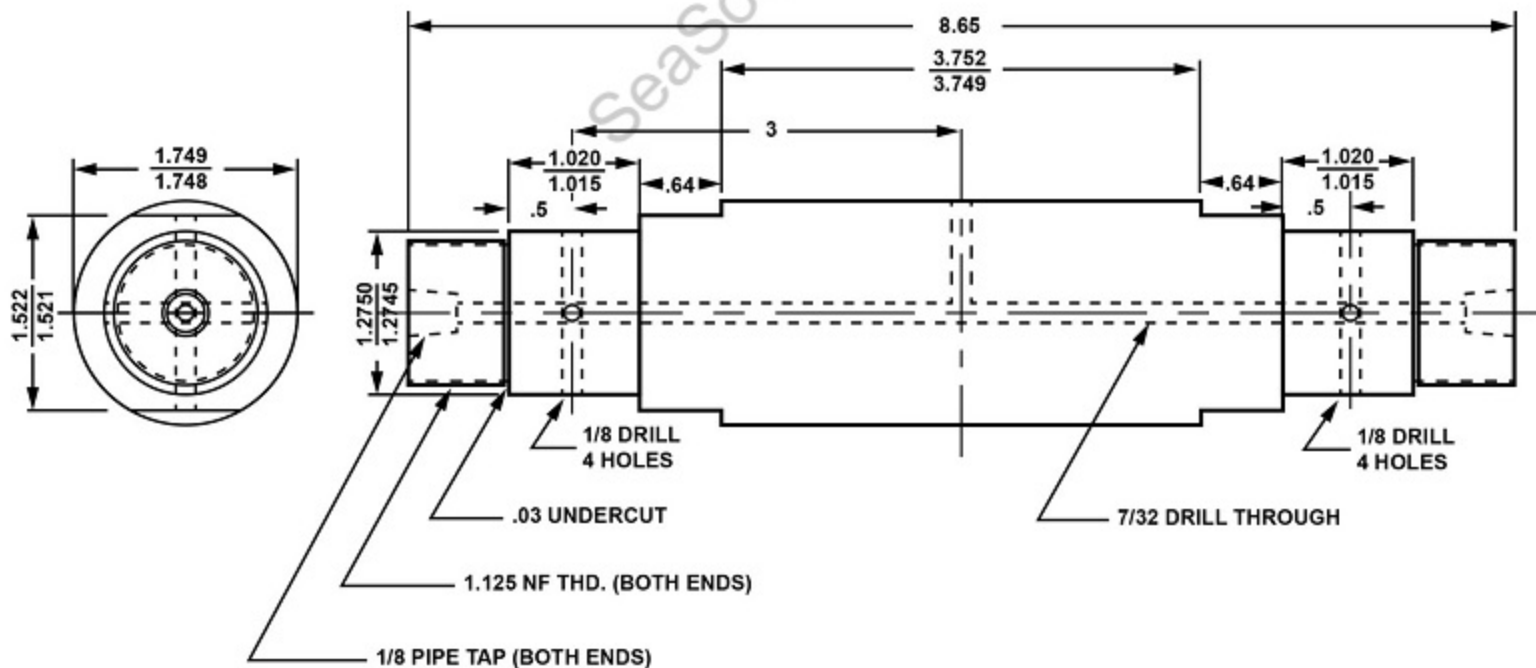
SeaSources.net



GS-0007



GS-0008



DET -- 56 -- SHAFT

6 -- TYPE SAE 1095 STEEL

STK 2 DIA WT 7.92 LBS.

HARDEN -- ROCKWELL 52-64

GRIND

SCALE: 2/3 = 1

GS-0009



A



B



C



D



E



F



G

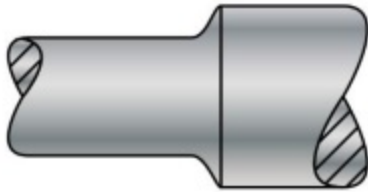


Fig. I

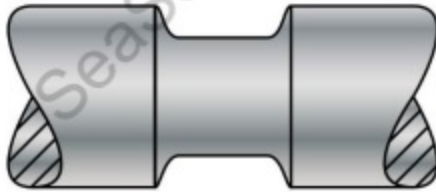


Fig. II

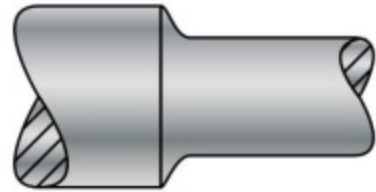


Fig. III

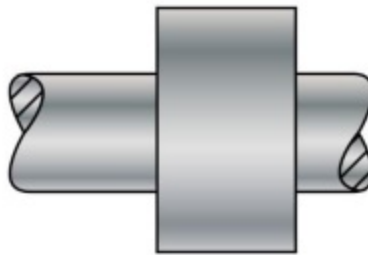


Fig. IV

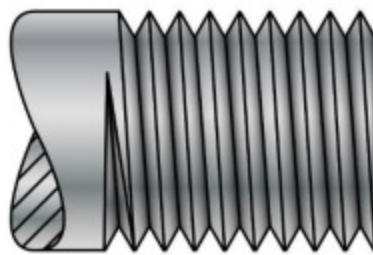


Fig. V

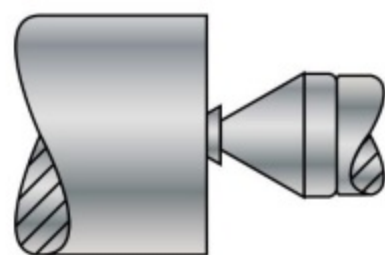


Fig. VI

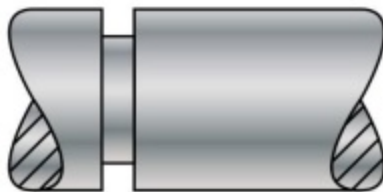
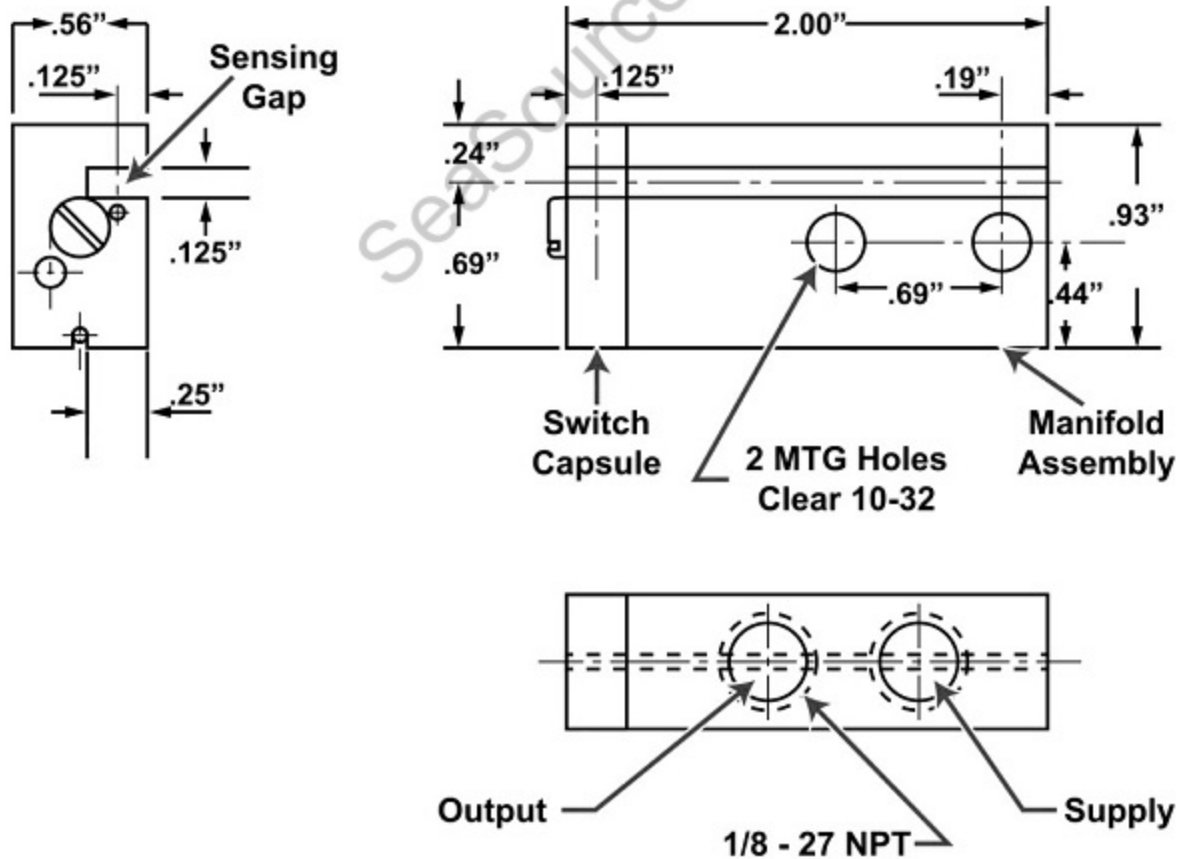


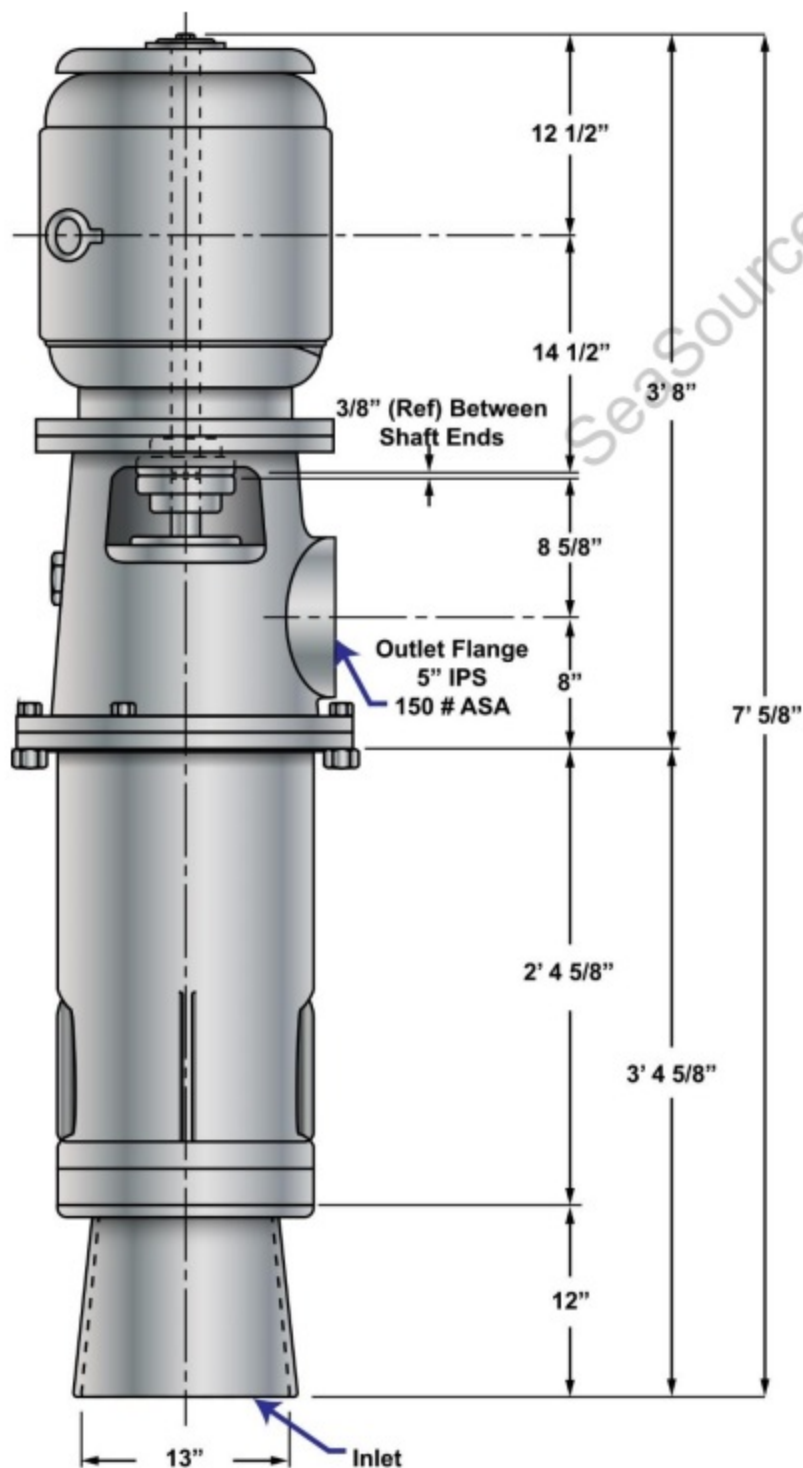
Fig. VII

GS-0010



Left Hand Limit Sensor Assembly

GS-0011



MOTOR CHARACTERISTICS

Motor (A. C.)	Electro Dynamic
Rating H. P.	25
Speed R. P. M. (SYN.)	1200
Frame	365 VY
Type	TN
Volts	440
Cycles	60
Phase	3

PUMP CHARACTERISTICS

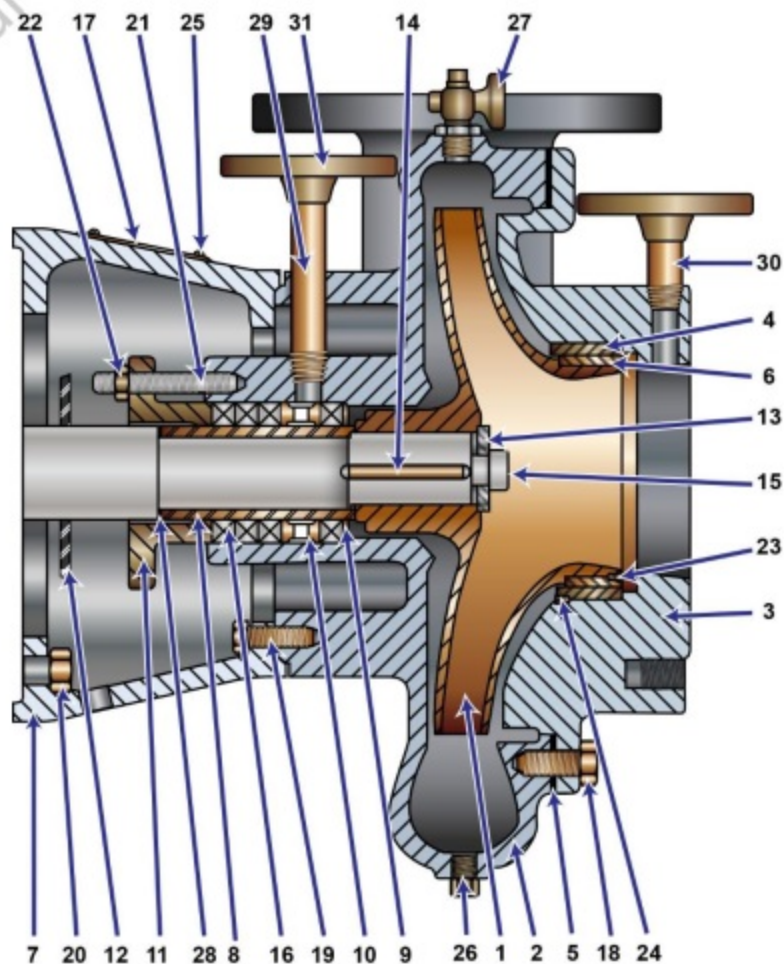
Capacity G. P. M.	400
Speed R. P. M.	1150
Suction Lift "HG	10
B, H, P. @ 1200 SSU-75° F	24.9
Oil viscosity Range, SSU	74-7000
Viscosity Normal SSU @ 140° F	155
Discharge Normal PSIG	55
Fluid Handled, Lube Oil	2190 TEP.
Navy Specification	MIL-L-17331
Oil Temperature Range ° F	40-180

Illustration scale: 1" = 1'

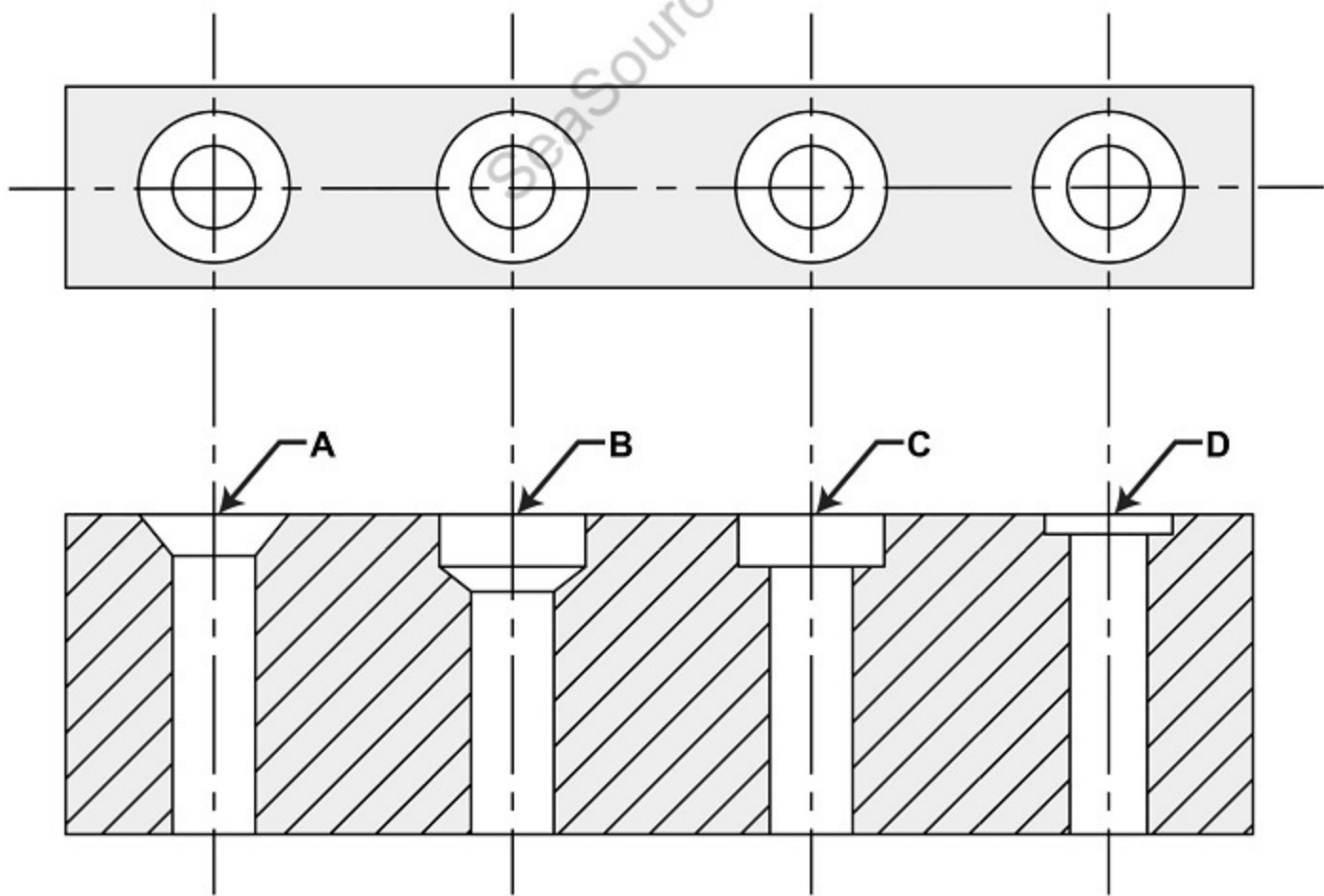
GS-0012

ITEM	QTY	DESCRIPTION	MATERIAL	REMARKS
1	1	Impeller	NI-CU Alloy	3H1A
2	1	Volute	Gunmetal	3H4C
3	1	Suction Cover	Gunmetal	3H193
4	1	Volute Wear Ring	Valve Bronze	A-3H180A
5	1	Volute Gasket	PTFE/ Glass Fiber Reinforced	P/N 3H37
6	1	Impeller Wear Ring	NI-CU Alloy	3H180
7	1	Motor Bracket	Cast Steel	2L3C
8	1	Shaft Sleeve	NI-CU Alloy	P/N A-014-20A-0-01
9	1	Throat Bushing	NI-CU Alloy	P/N 4L26-4
10	1	Lantern Ring	NI-CU Alloy	4L169
11	2	Gland Half	Bronze	B-017-5AH-A
12	1	Slinger	Neoprene	1 47/64 X 3 3/4 X 1/8TH
13	1	Impeller Washer	NI-CU Alloy	17/32 X 9/16 X 3/16TH
14	1	Impeller Key	NI-CU Alloy	1/4 SQ X 2 5/16 TH
15	1	SKT HD Capscrew	SST	1/2-13 NC X 1 1/4 LG NYLOCK
16	5	Packing Rings	Plastic Metallic	1 3/4 X 2 5/8 X 7/16 SQ
17	1	Name Plate	Brass	P/N A-226-00N-0-03
18	8	Hex Head Capscrews	NI-CU Alloy	1/2-13 NC X 1 LG
19	4	Hex Head Capscrews	NI-CU Alloy	3/8-16 x 1 LG
20	4	Hex Head Capscrews	NI-CU Alloy	1/2-13 NC X 1 1/4 LG
21	2	Stud	SST	3/8-16 NC X 2 1/2 LG
22	2	Hex Nut	Bronze	3/16-16 2
23	3	Setscrew	NI-CU Alloy	10-24 NC X 1/4 LG CUP
24	3	Setscrew	NI-CU Alloy	10-24 NC X 1/4 LG CUP
25	4	Drive Screw	Brass	6-24 X 1/4 LG
26	3	Pipe Plug	Bronze	1/4 NPT
27	1	Vent Valve	Bronze	1/4 NPT
28	1	O Ring	Buna "N"	1 5/16 ID 1/16 WIDE
29	1	Pipe	70-30 CU-NI	4 11/16 LG 1/4 NPT
30	1	Pipe	70-30 CU-NI	3 3/16 LG 1/4 NPT
31	1	Flange	Valve Bronze	1/4 INCH 150#

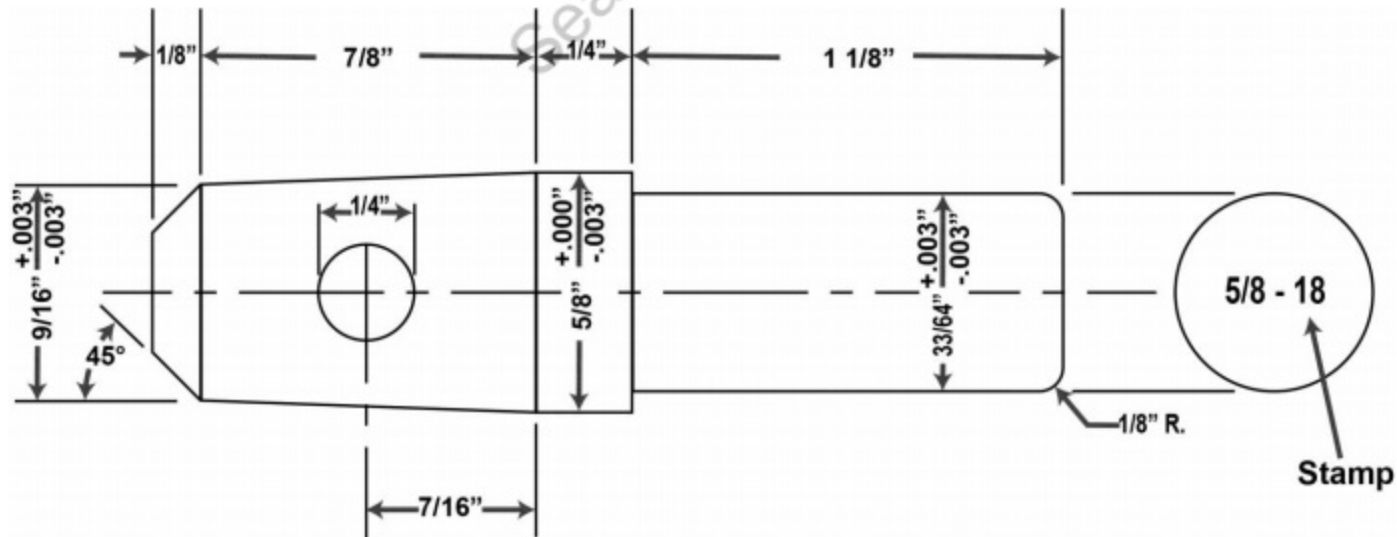
Note: Inside dia. of Wearing Ring, PC No. (4) is .020 undersize outside dia. of Wearing Ring, PC No. (6) is .020 oversize when finished as repair parts and are designated as part No. 5 A3H180A-1 U/S and 3H180-1 O/S



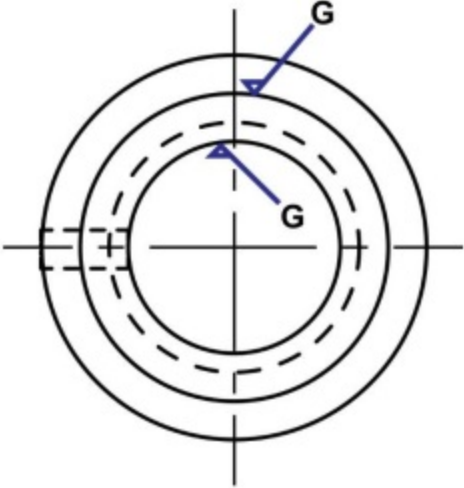
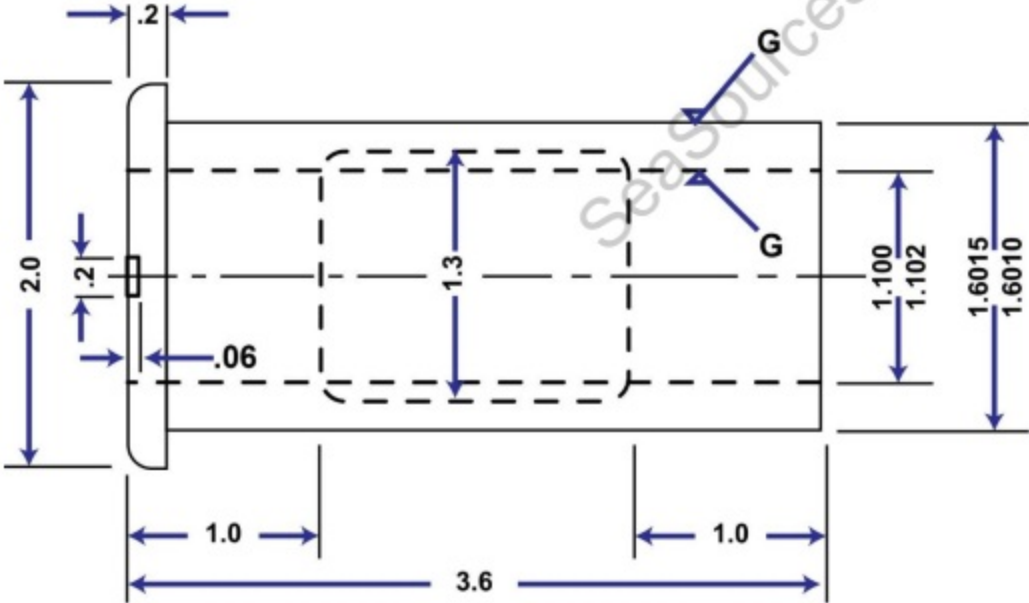
GS-0015



GS-0016



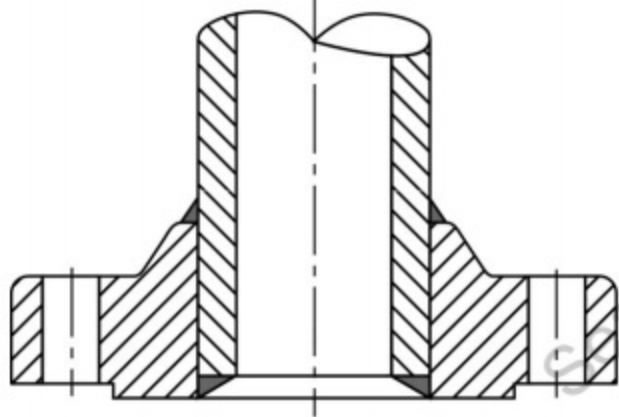
GS-0017



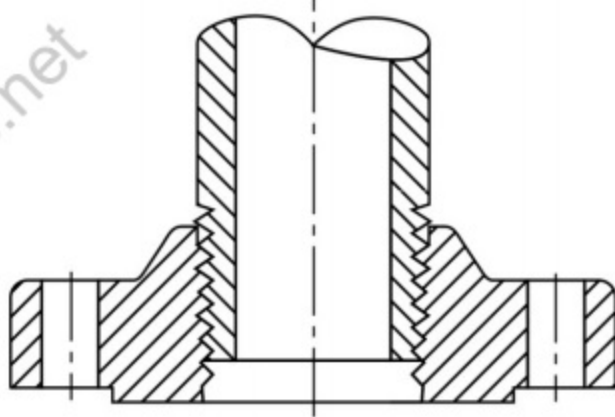
Bushing
AISI 1095 SAE Carbon Steel
Hardened and Tempered
Designated Surfaces Ground
To Specified Tolerances

GS-0018

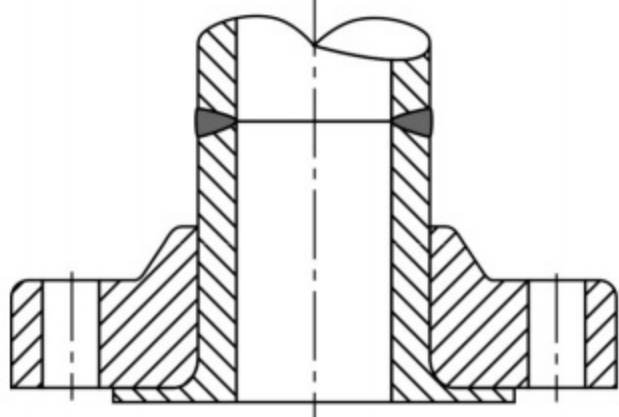
A



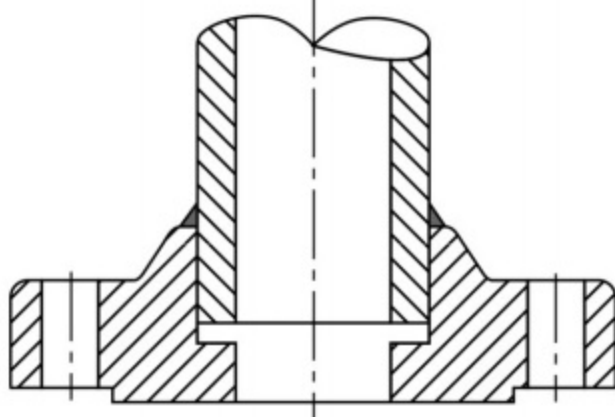
B



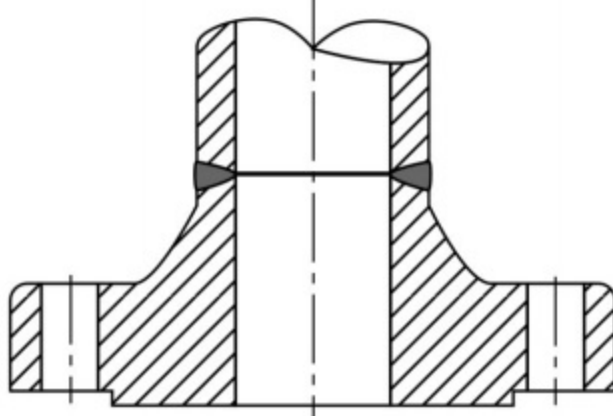
C



D



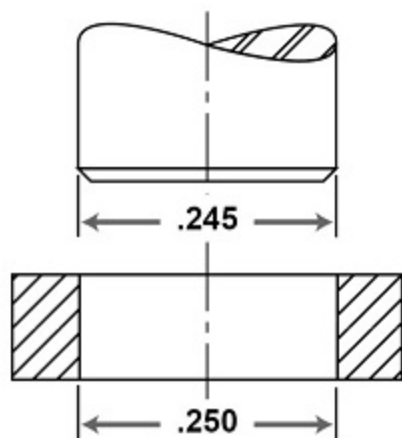
E



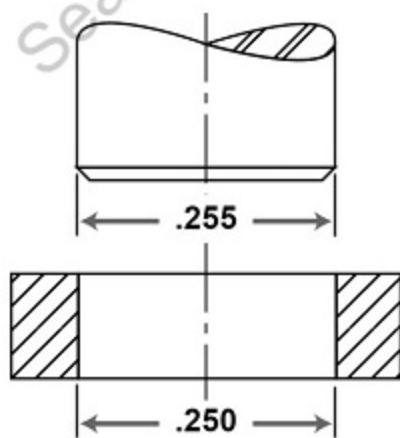
GS-0019

SeaSources.net

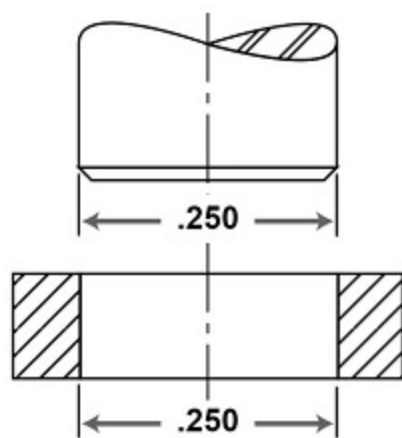
A



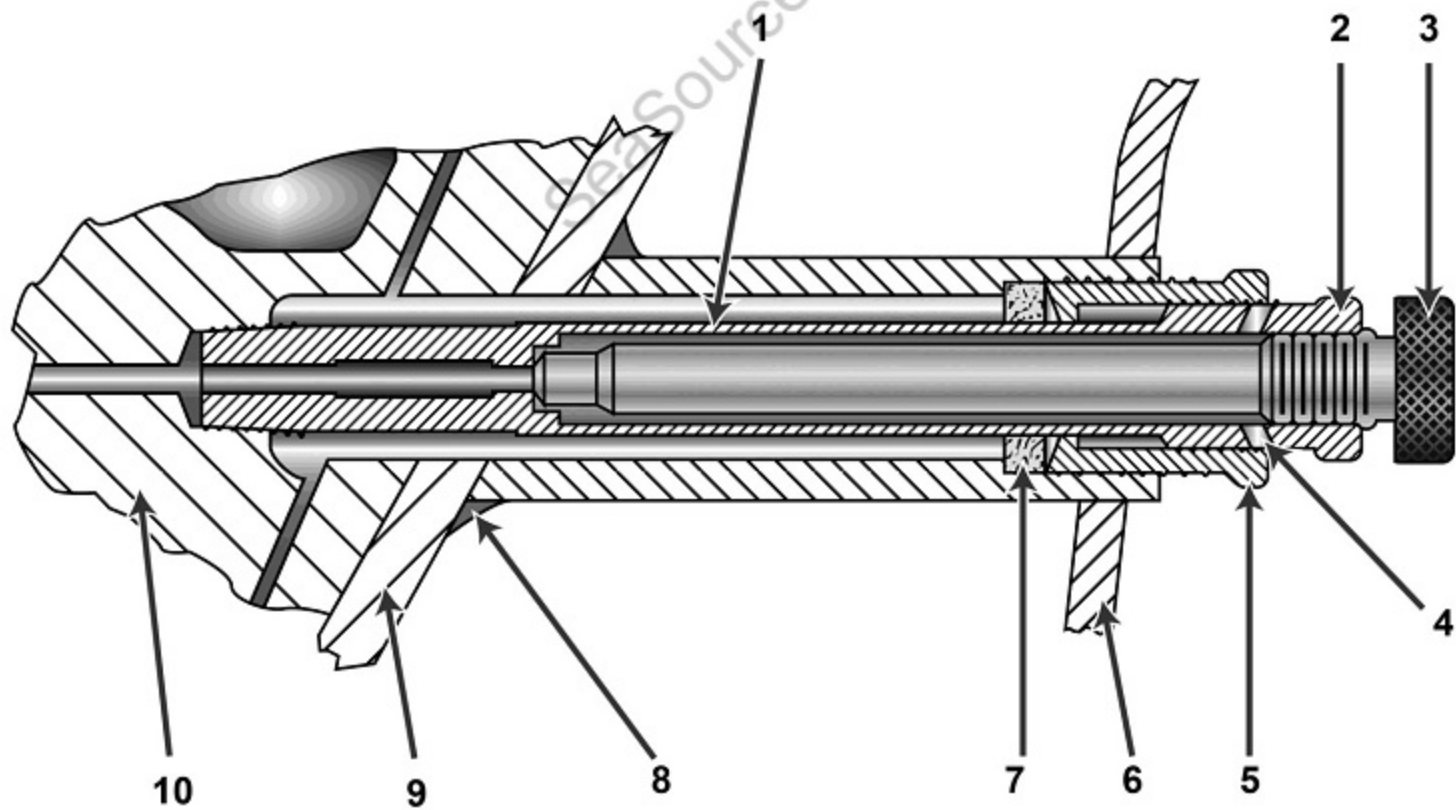
B



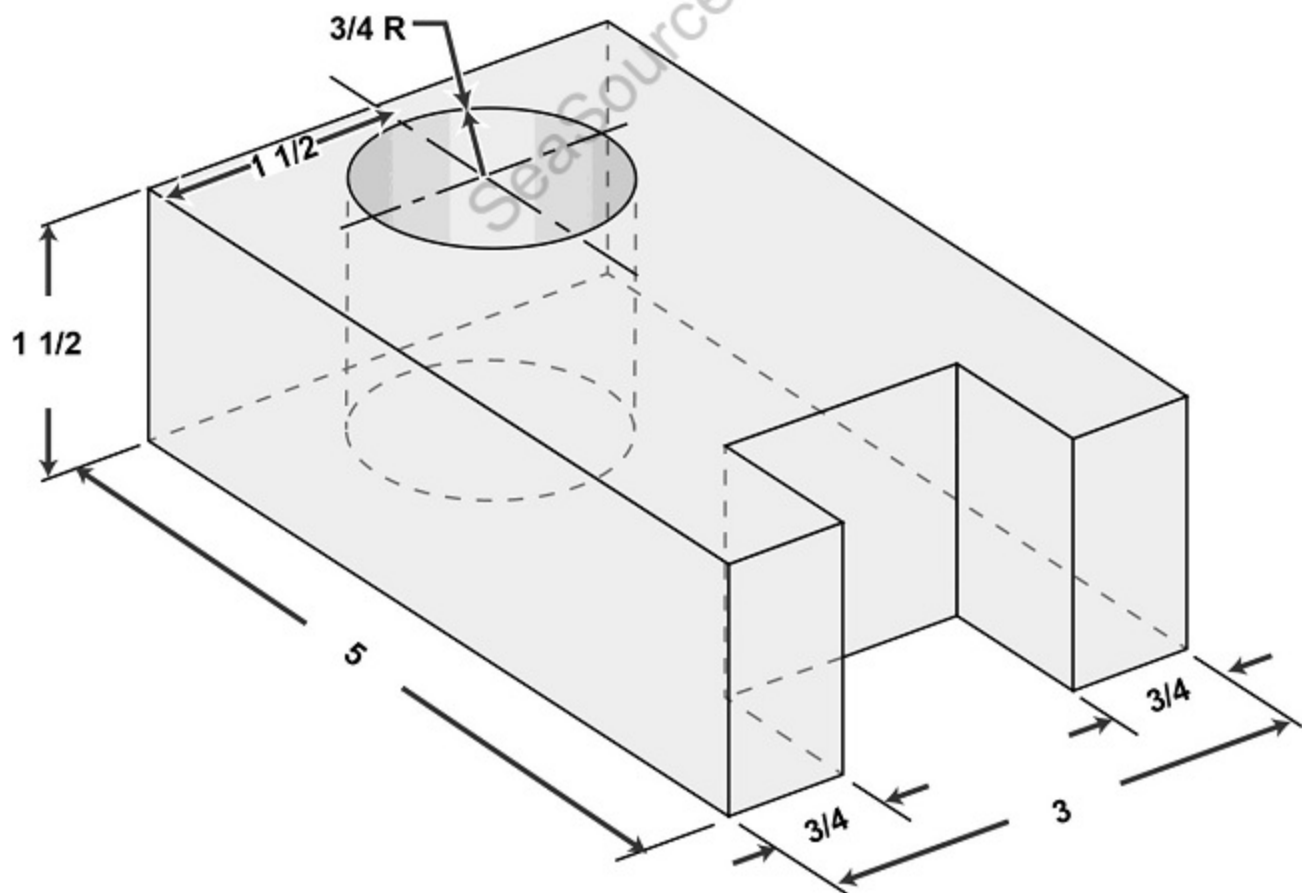
C



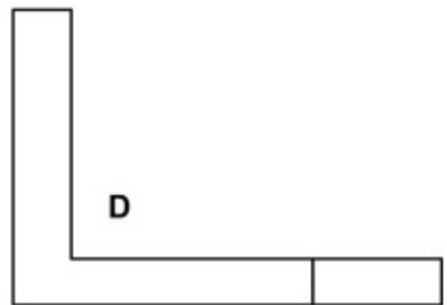
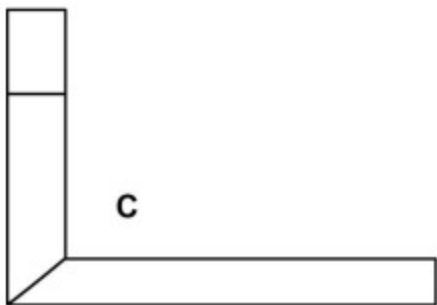
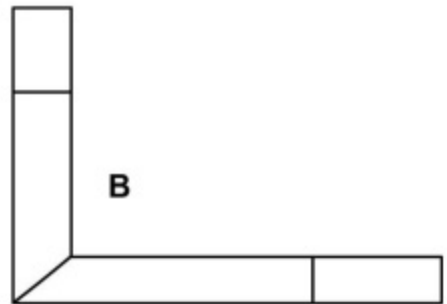
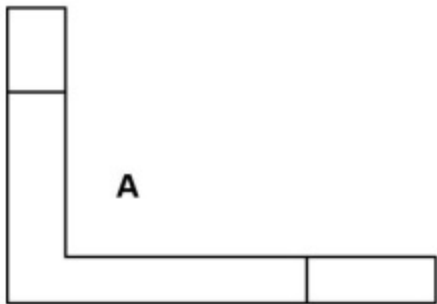
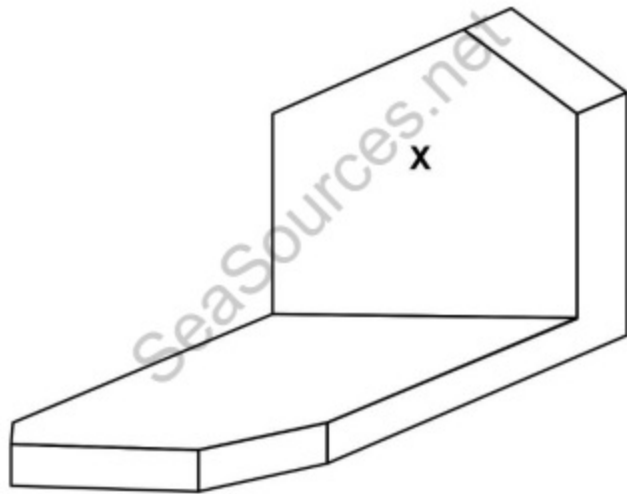
GS-0020



GS-0021

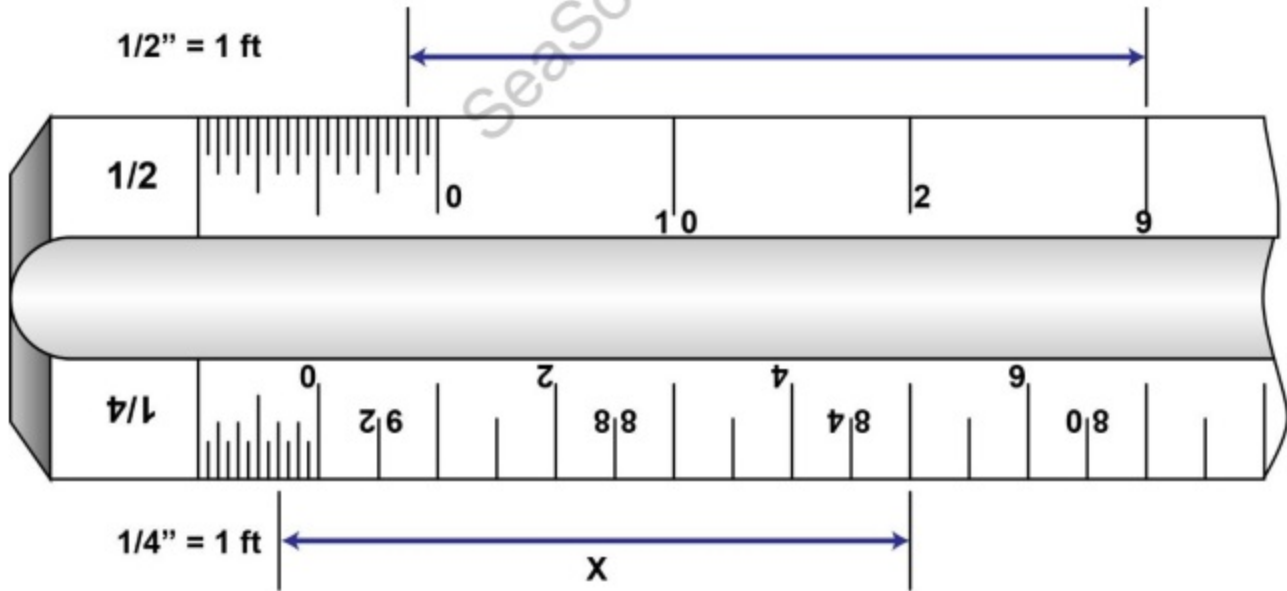


GS-0022

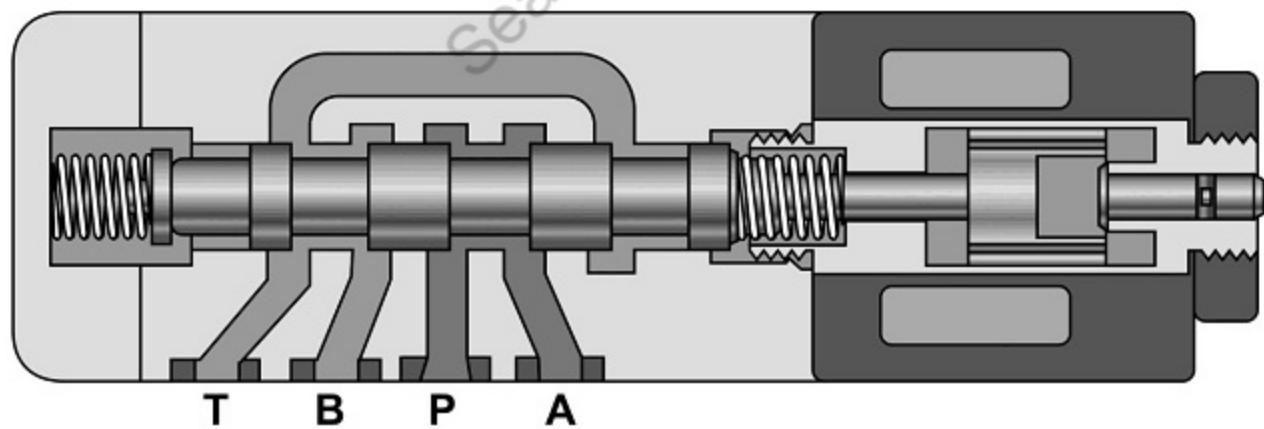


GS-0023

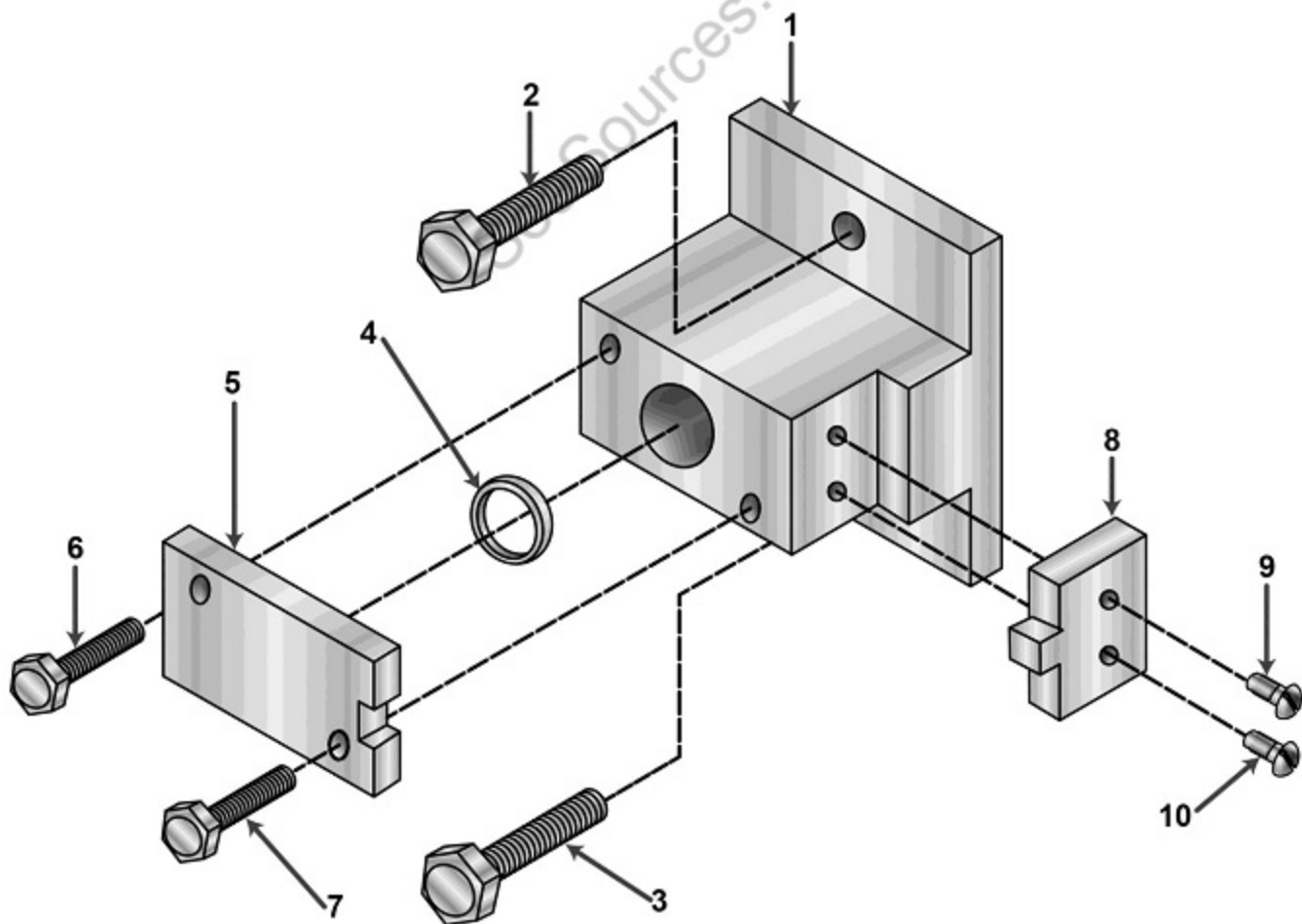
SeaSources.net



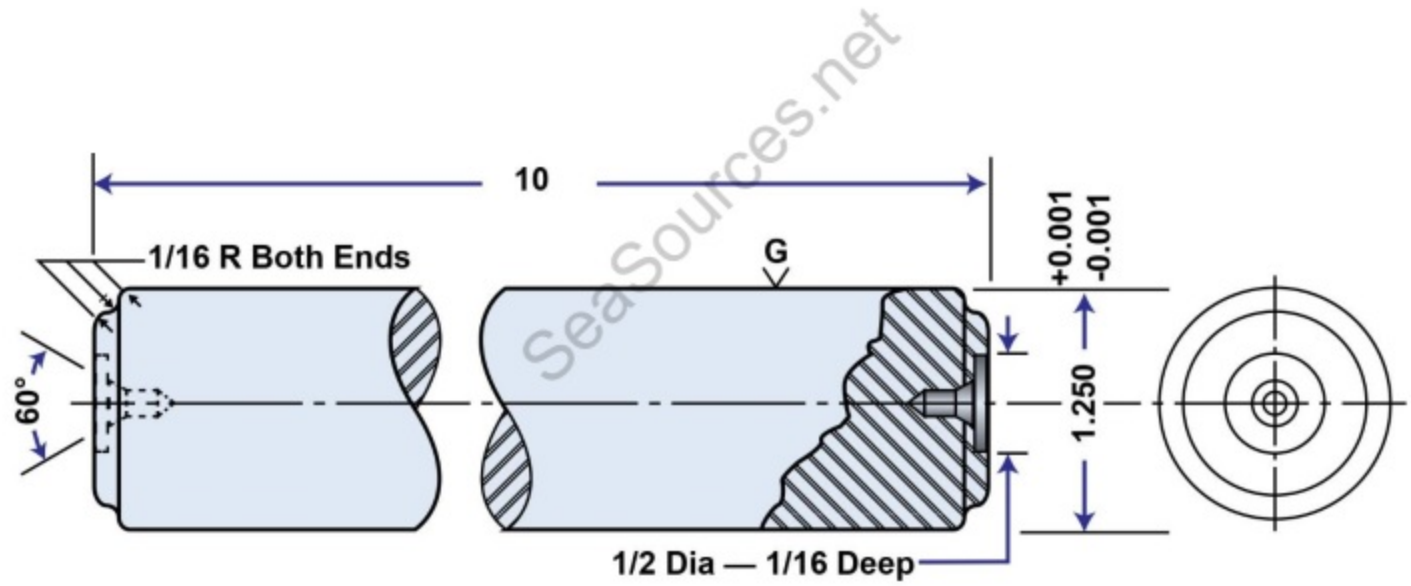
GS-0024



GS-0025

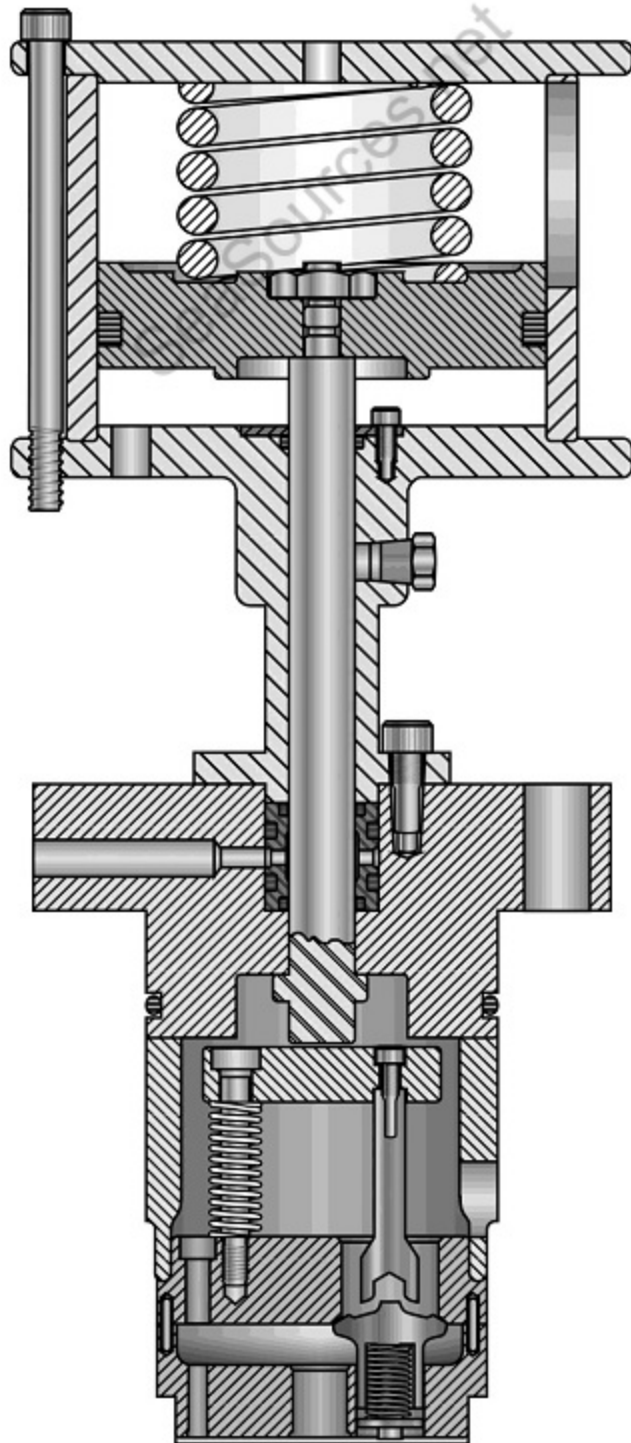


GS-0028



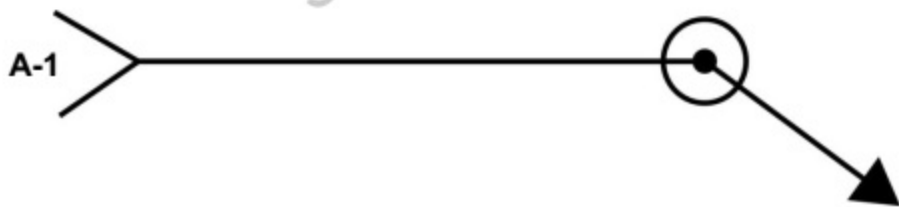
Allow 0.012 to 0.015 for Grinding

GS-0029



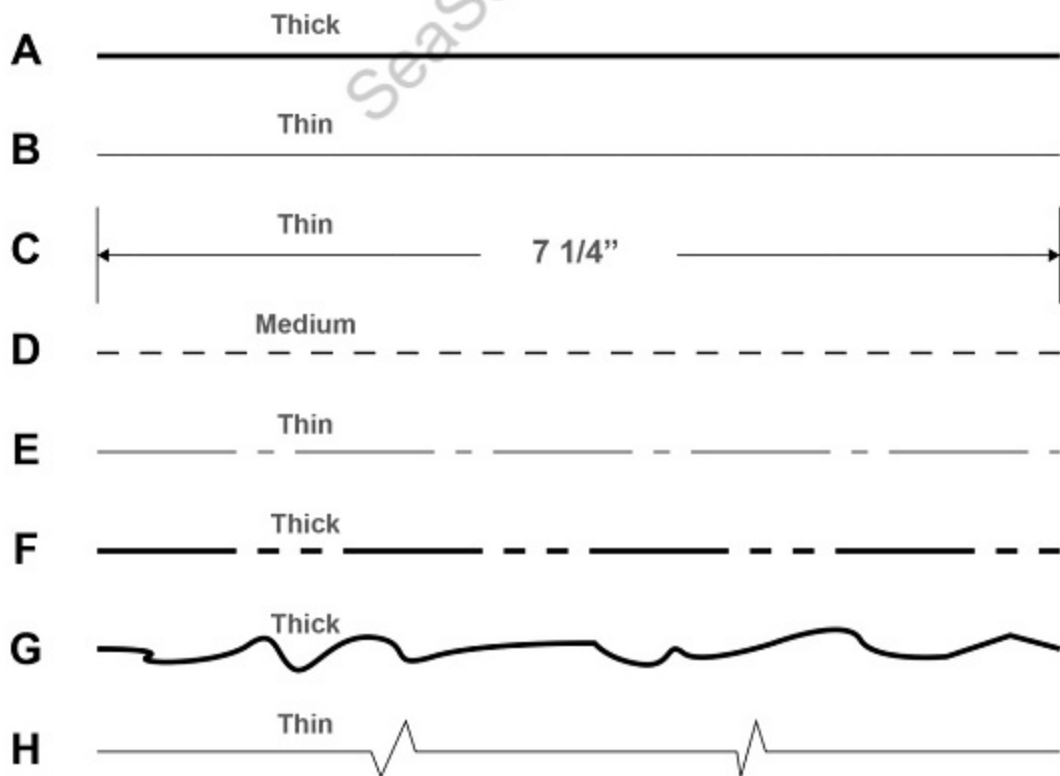
GS-0030

SeaSources.net

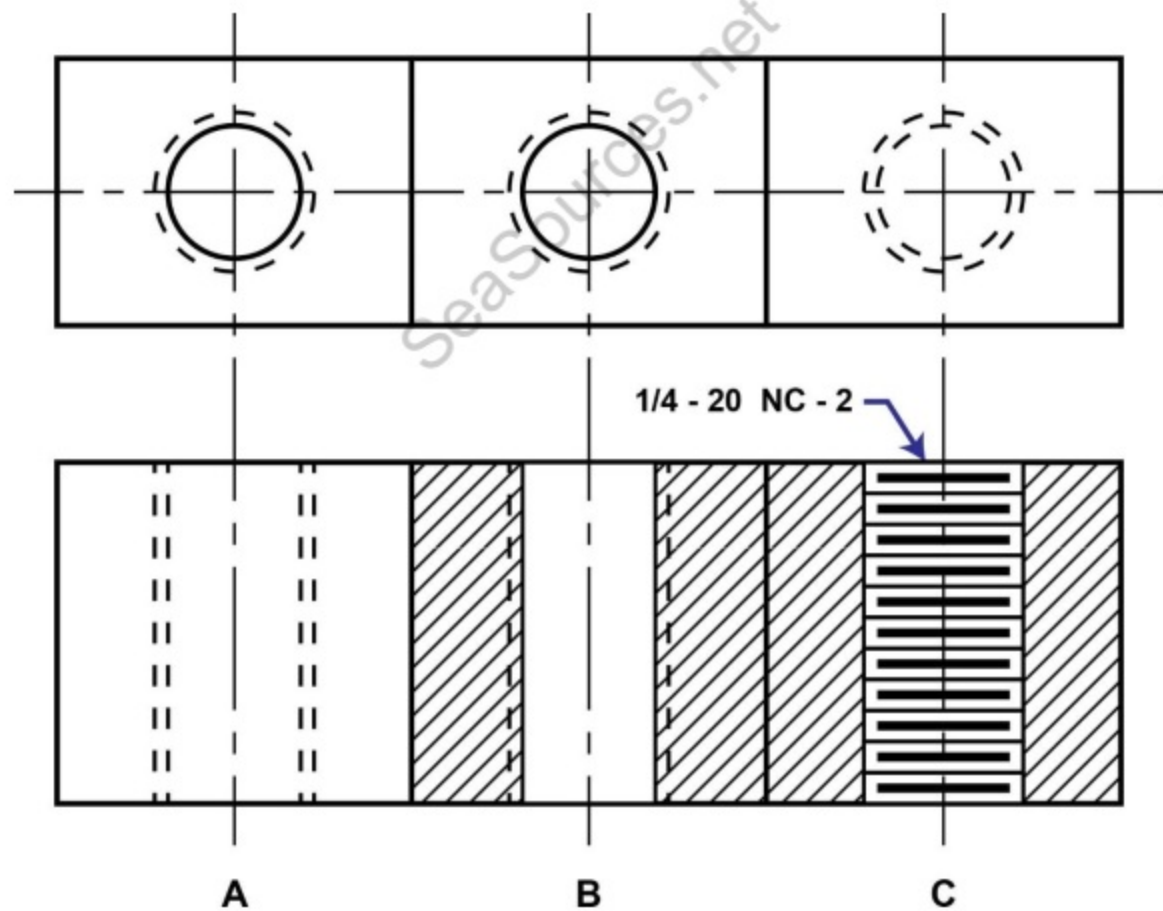


GS-0031

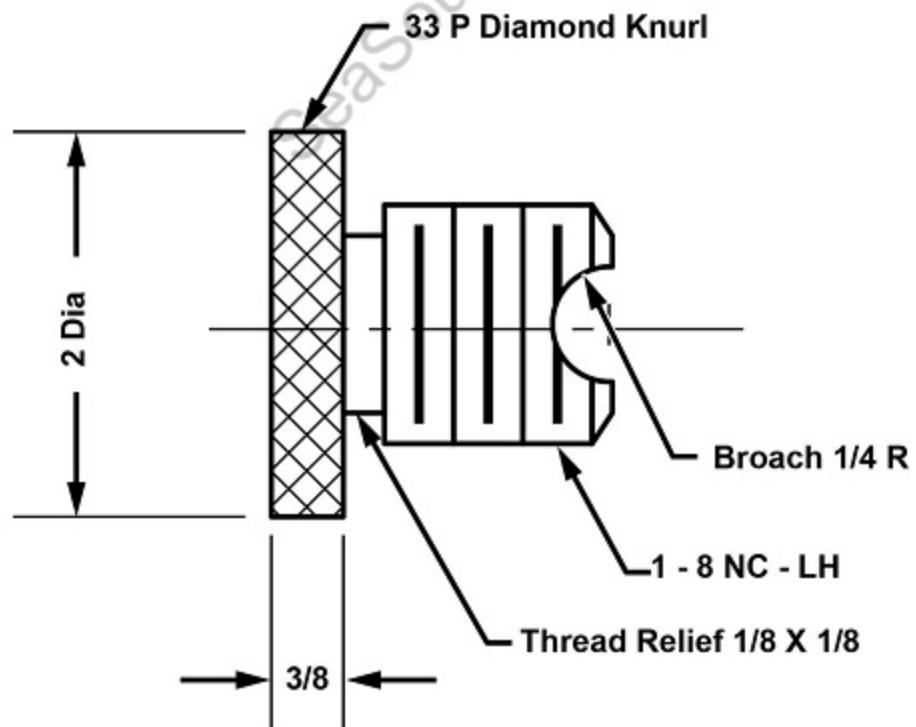
SeaSources.net



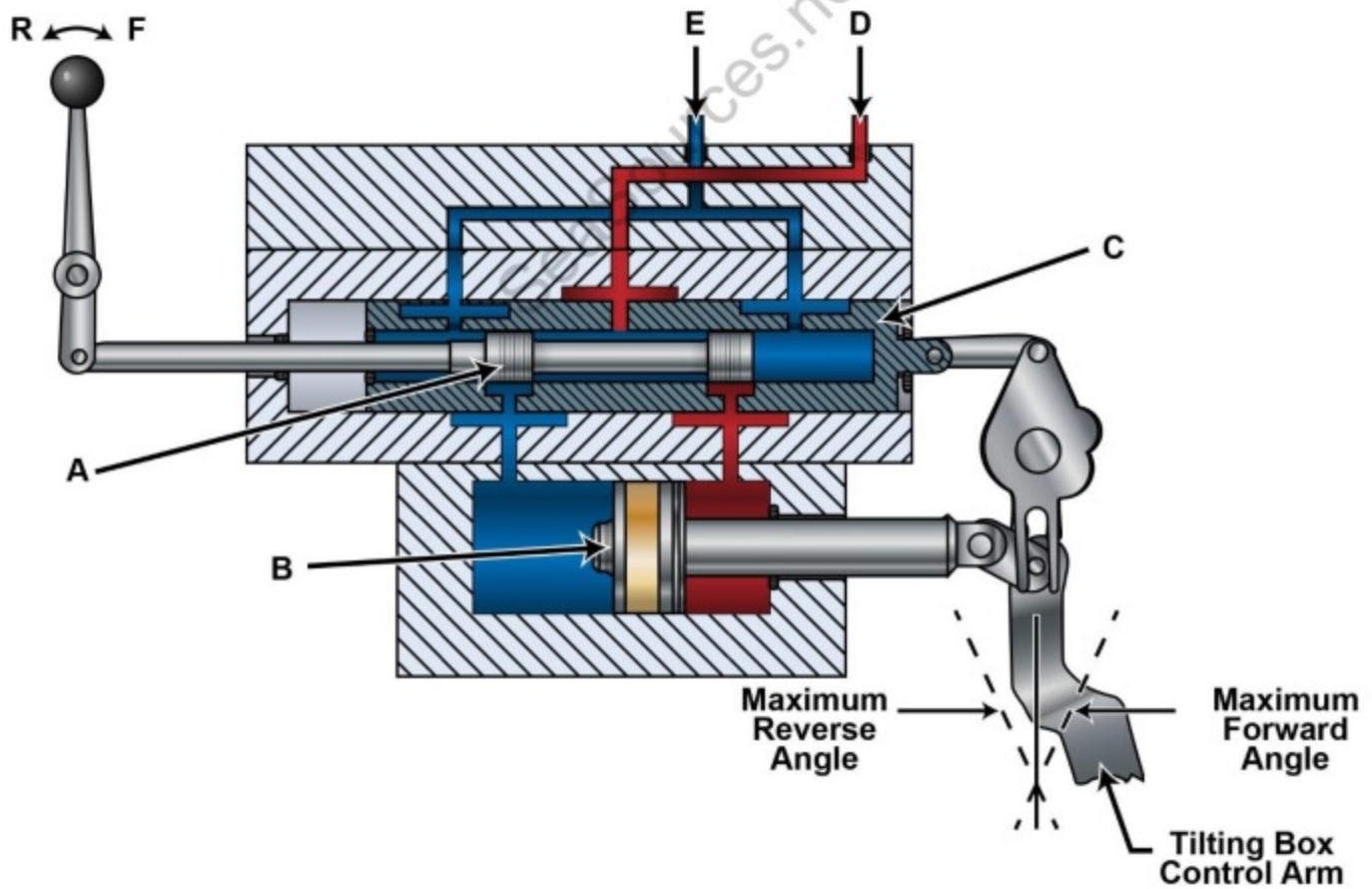
GS-0036



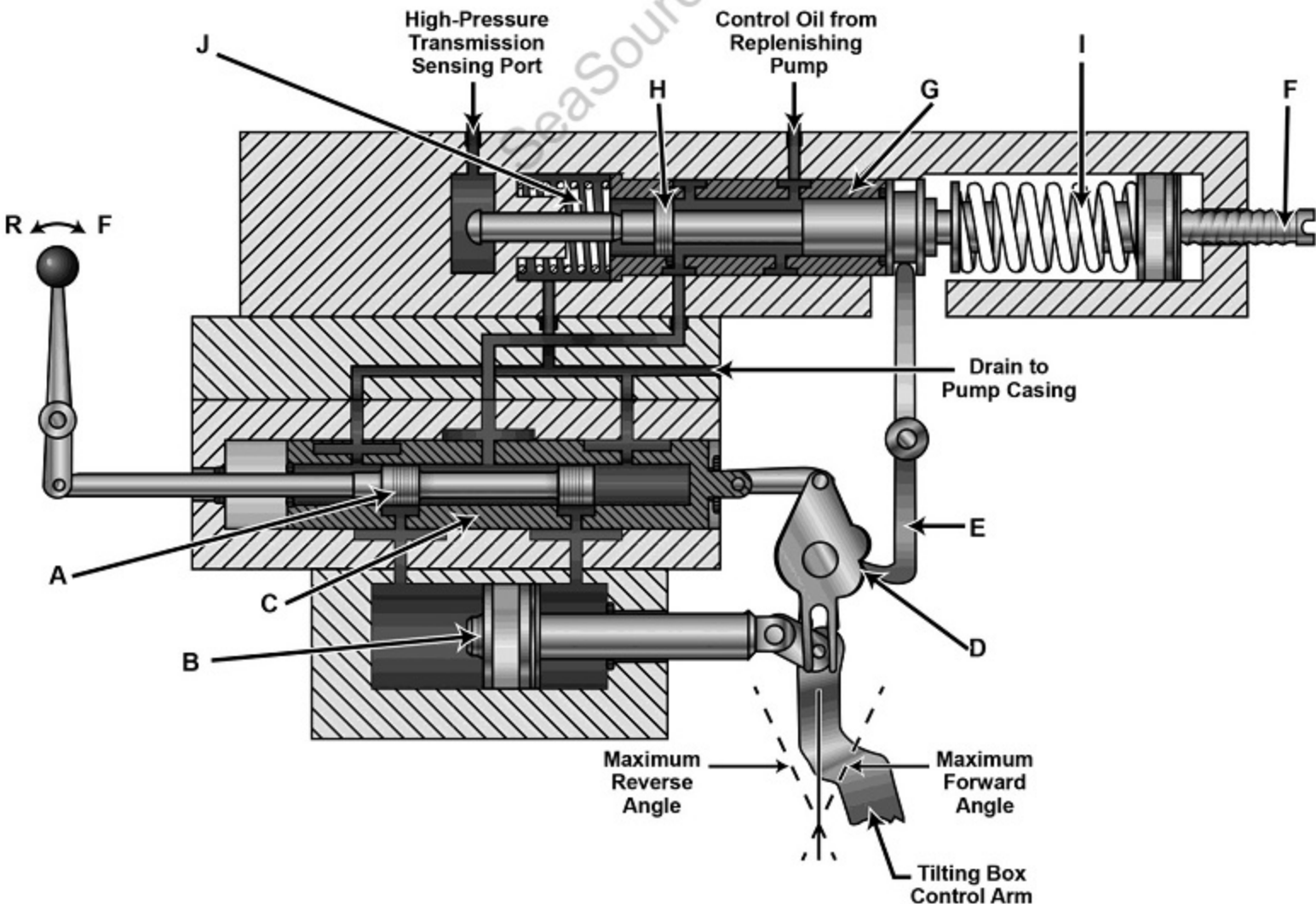
GS-0038



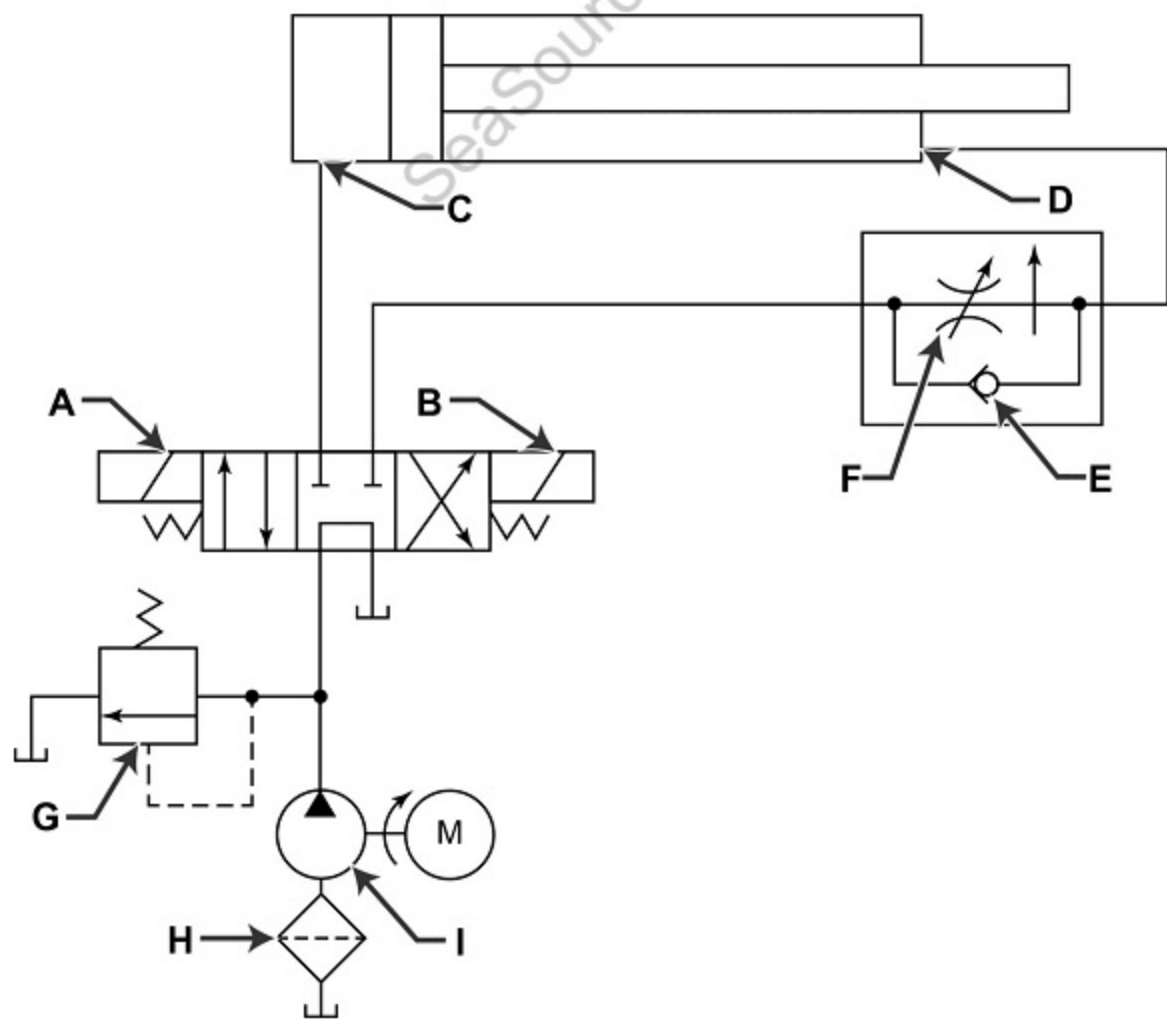
GS-0039



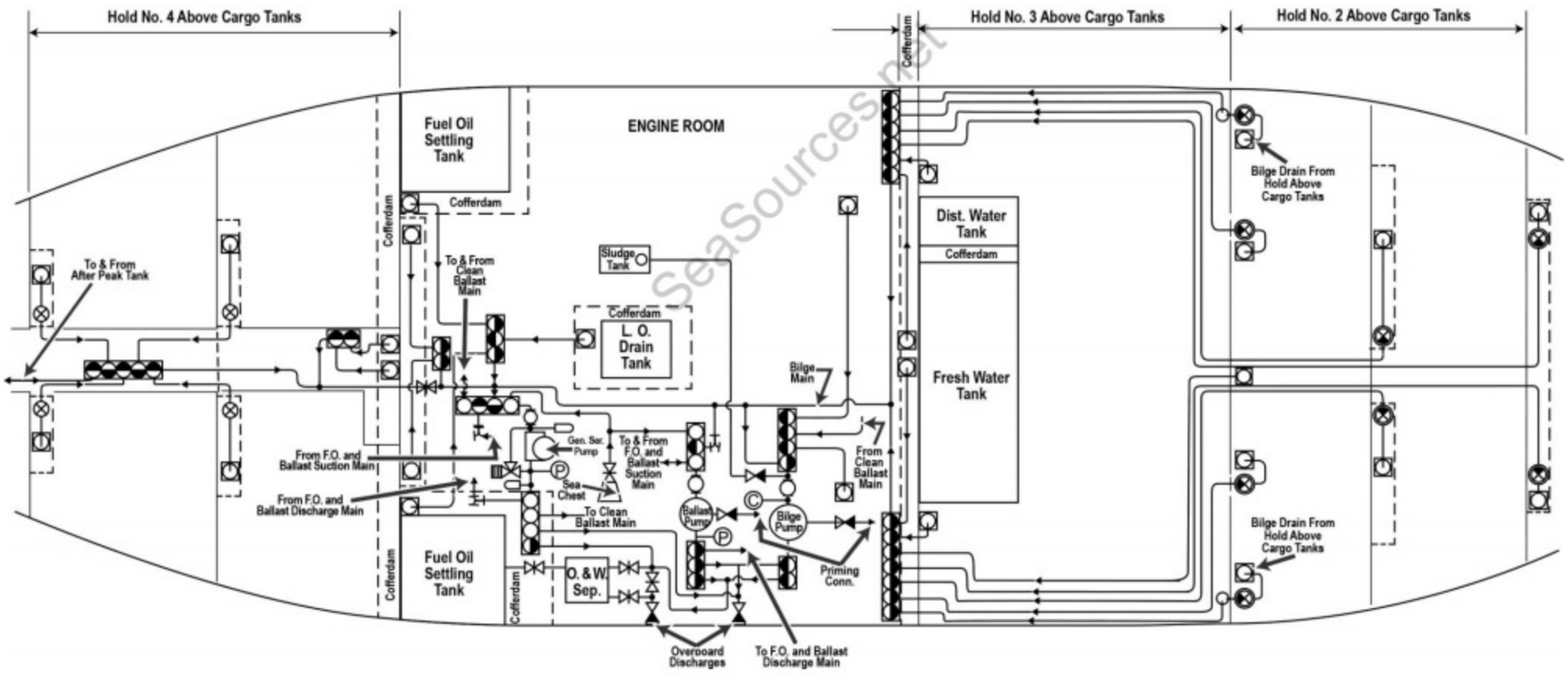
GS-0040



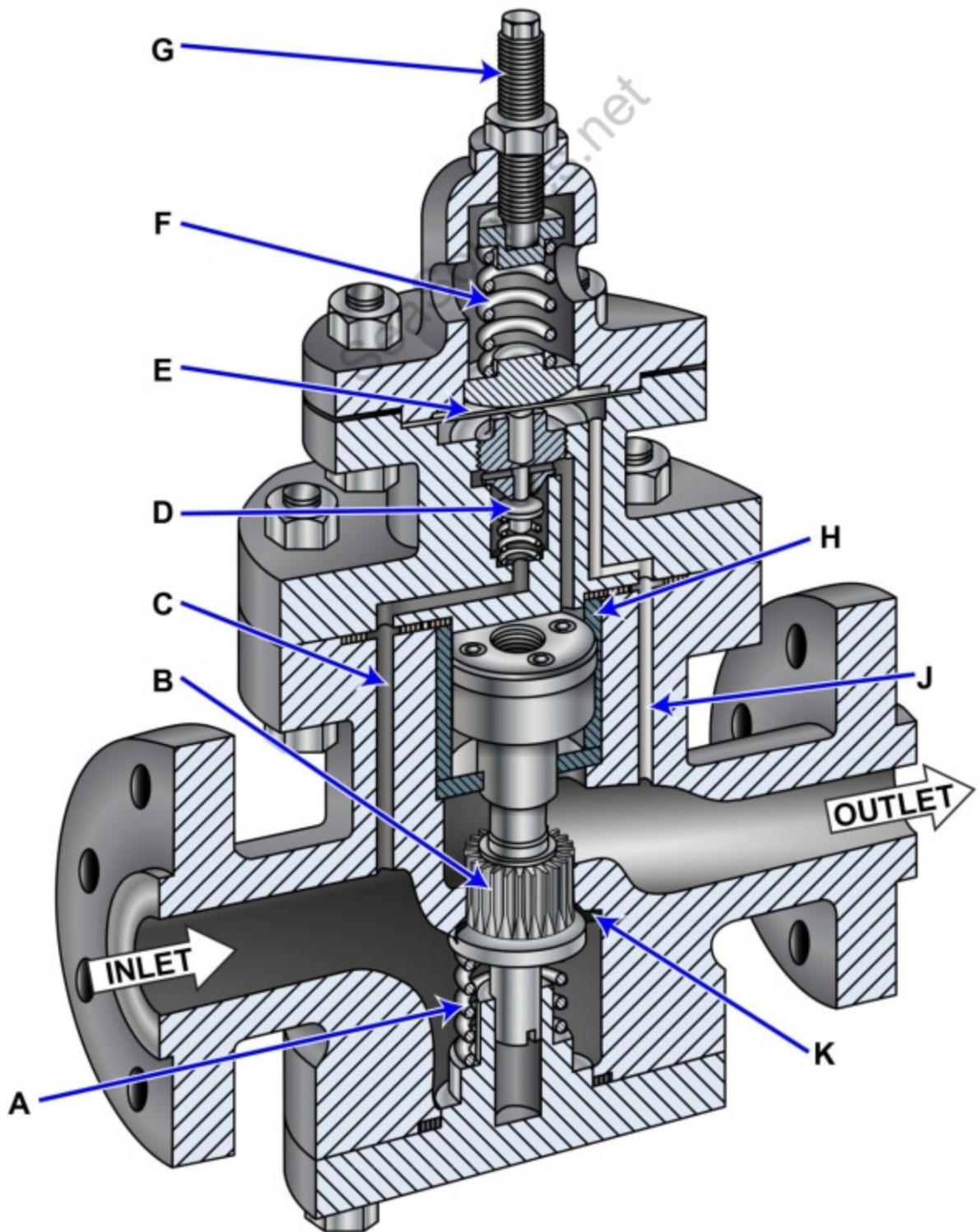
GS-0041



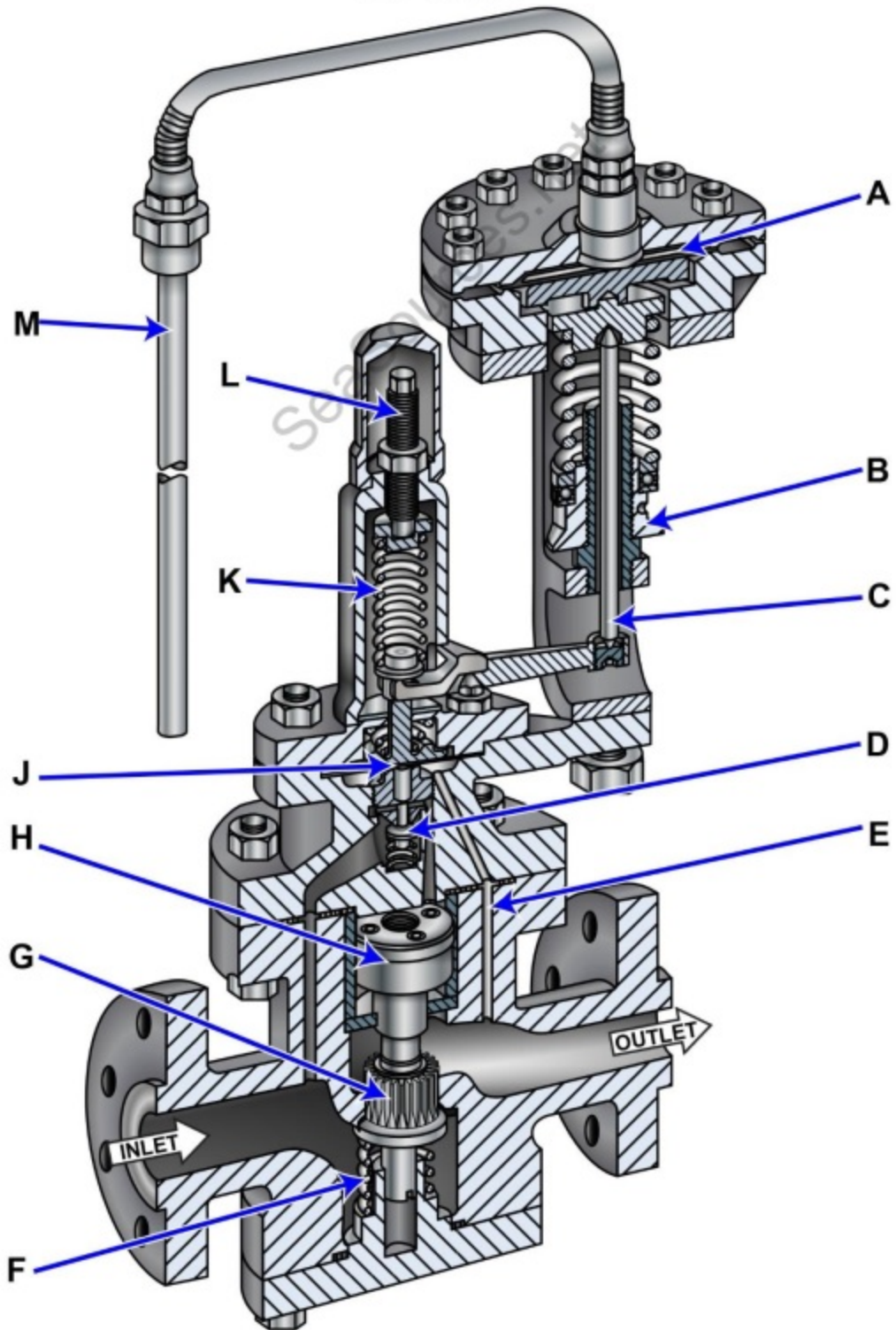
GS-0042



GS-0044



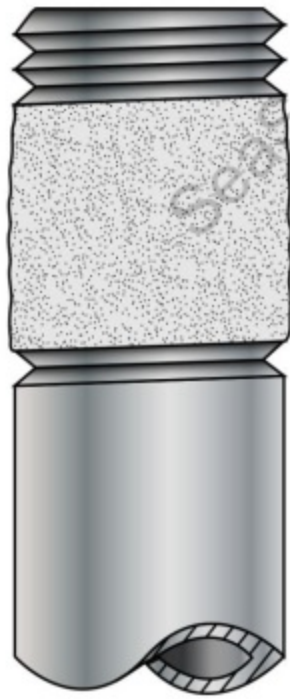
GS-0045



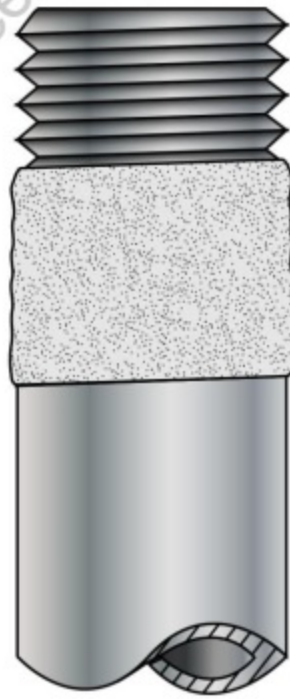
GS-0046



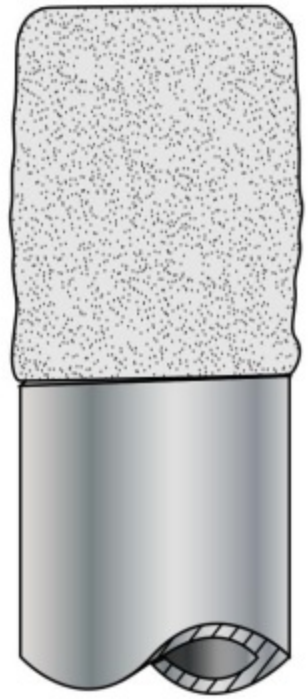
A



B

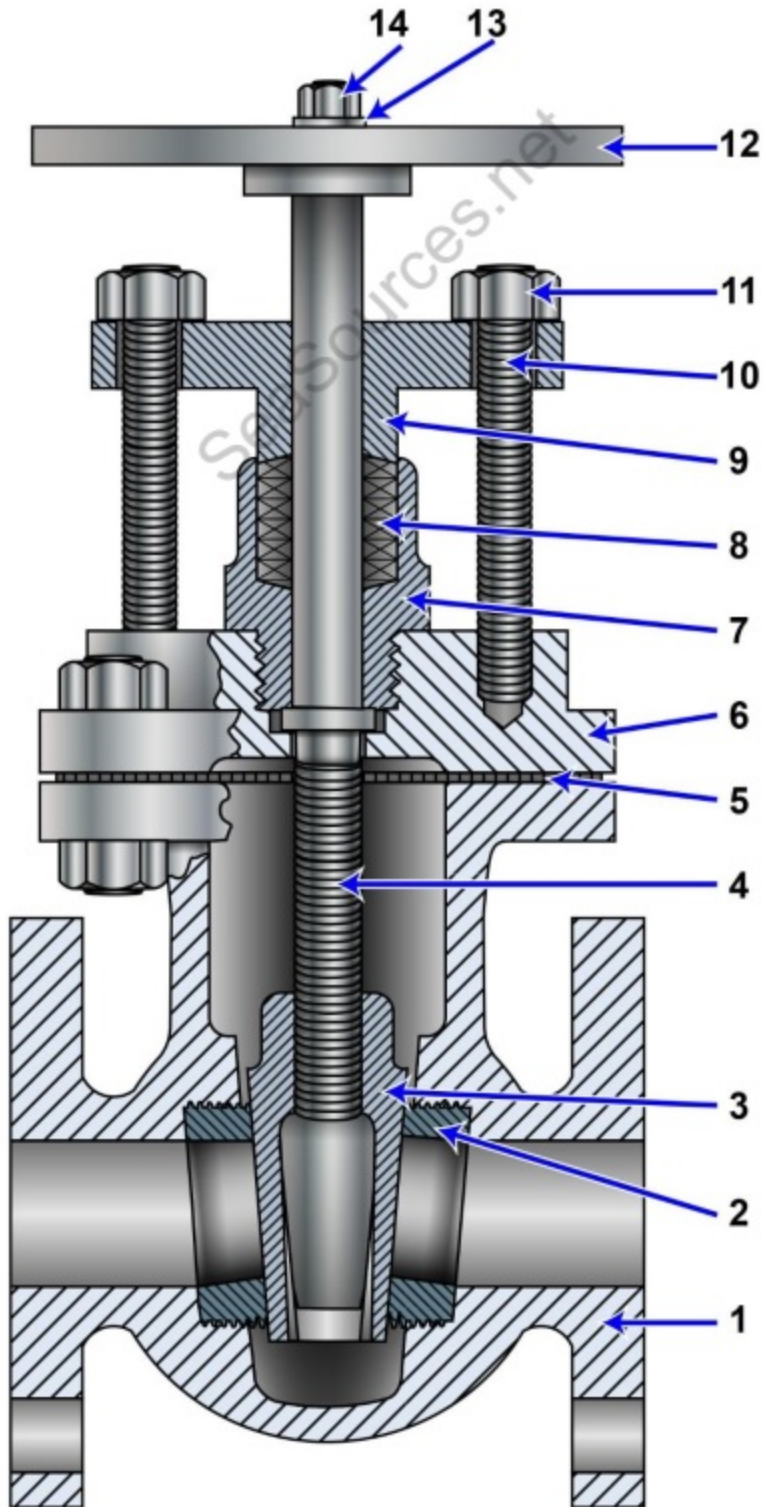


C

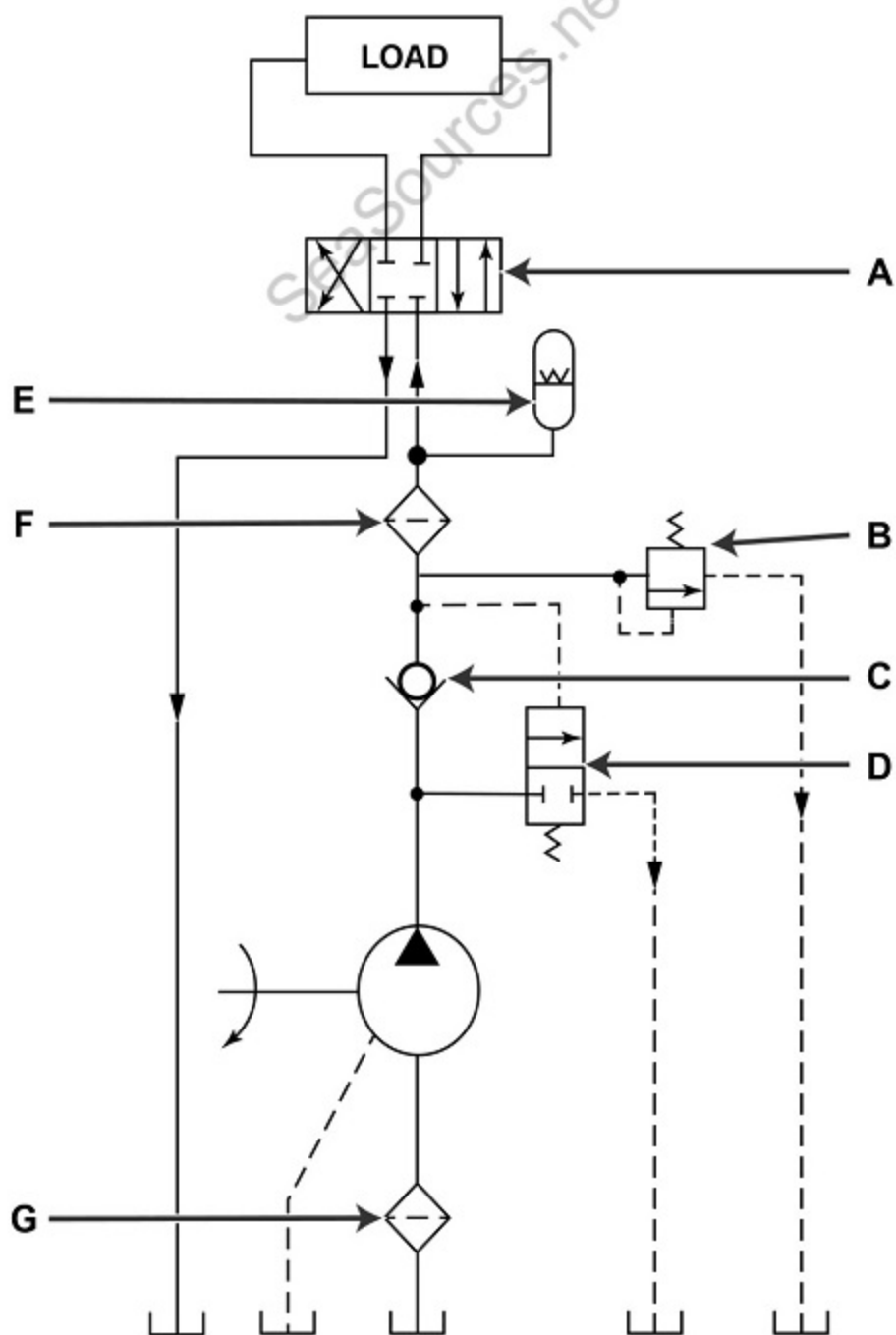


D

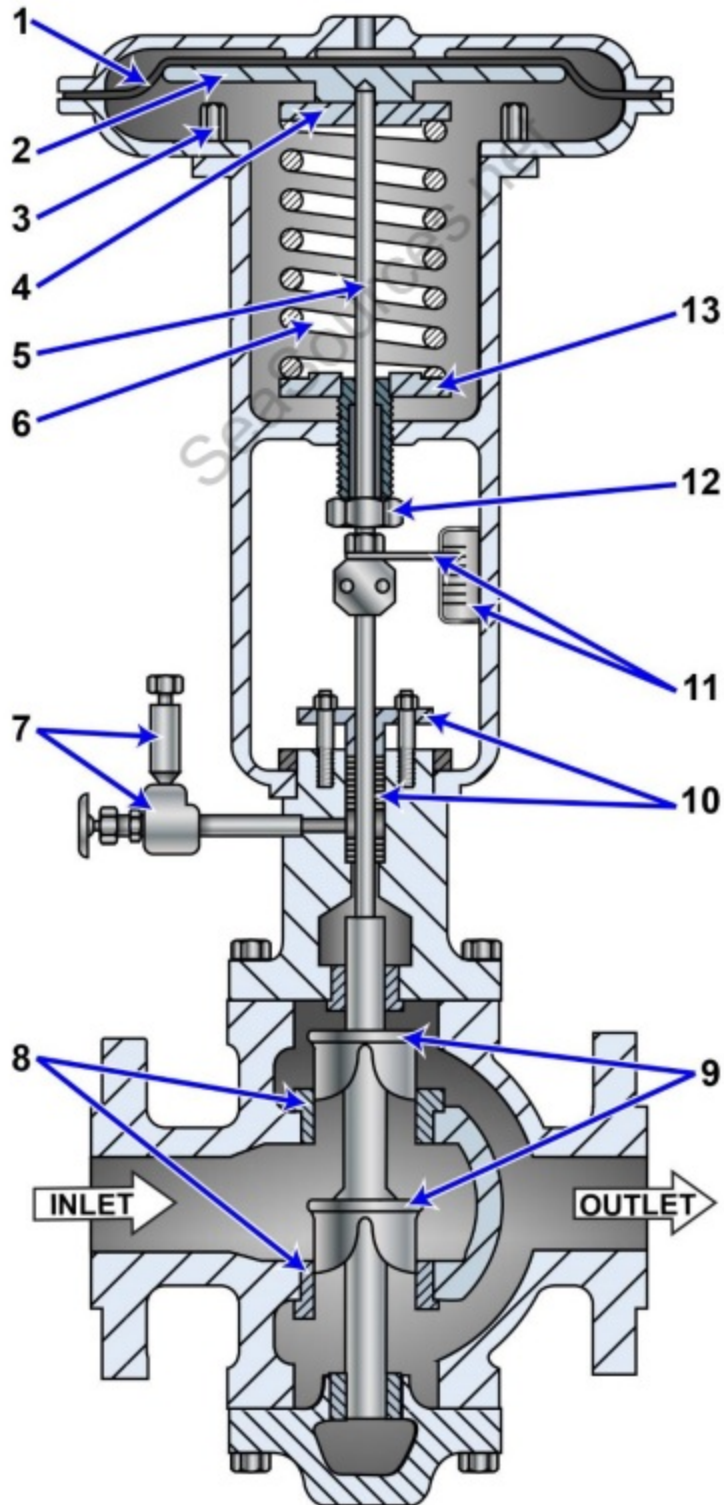
GS-0047



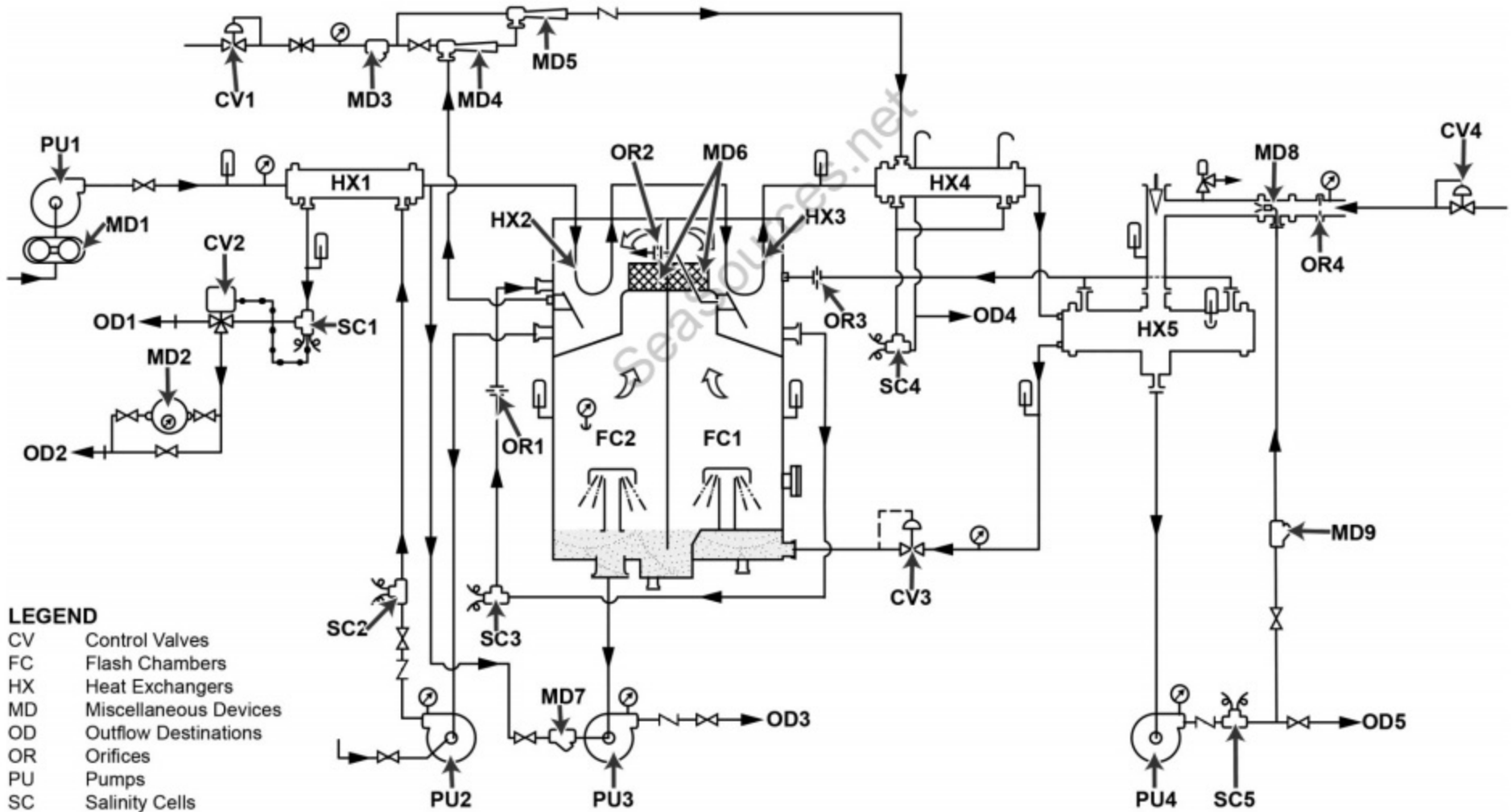
GS-0049



GS-0051



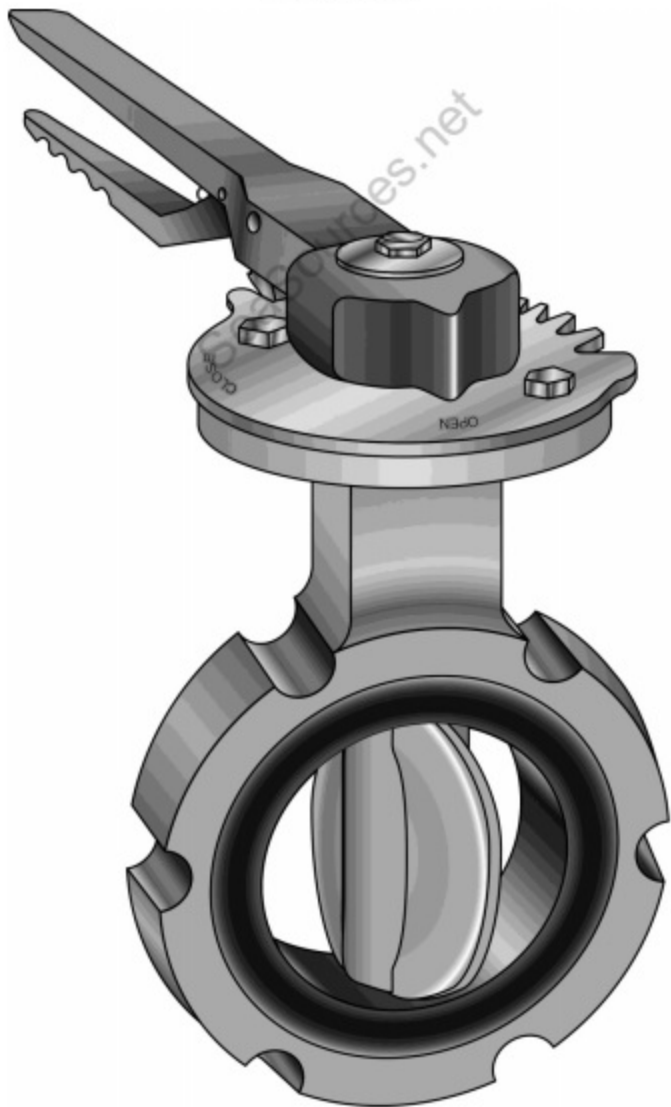
GS-0053



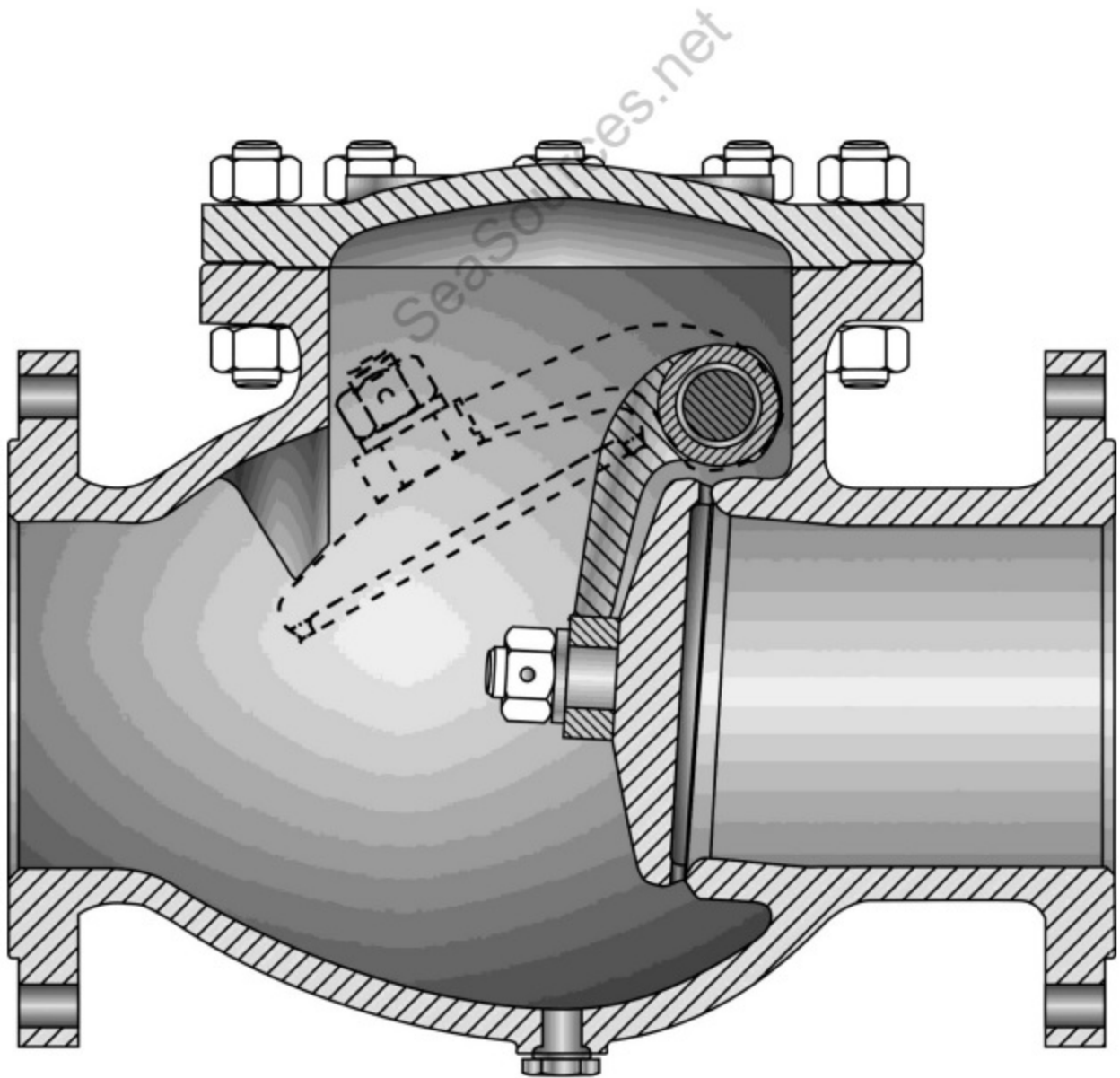
LEGEND

- CV Control Valves
- FC Flash Chambers
- HX Heat Exchangers
- MD Miscellaneous Devices
- OD Outflow Destinations
- OR Orifices
- PU Pumps
- SC Salinity Cells

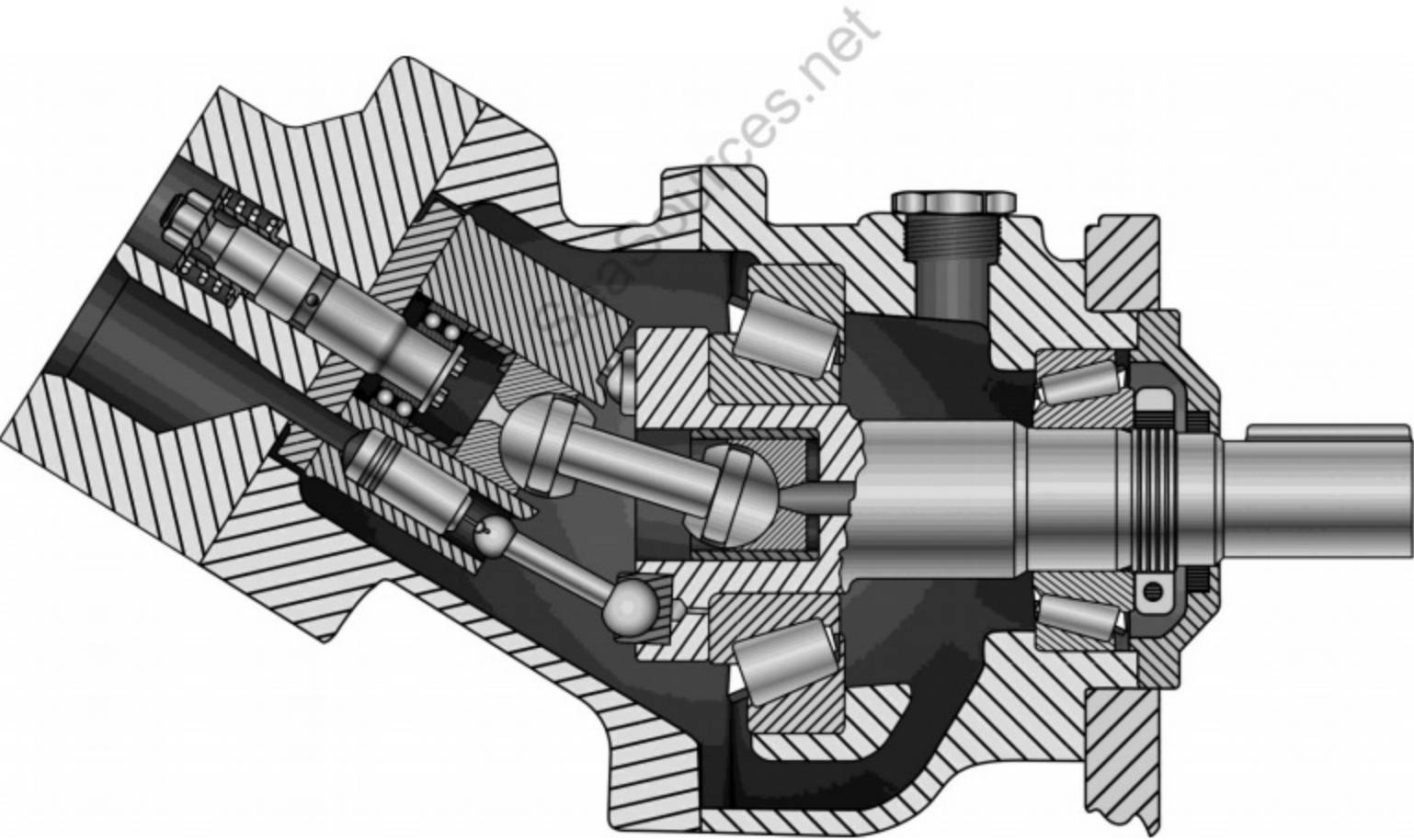
GS-0055



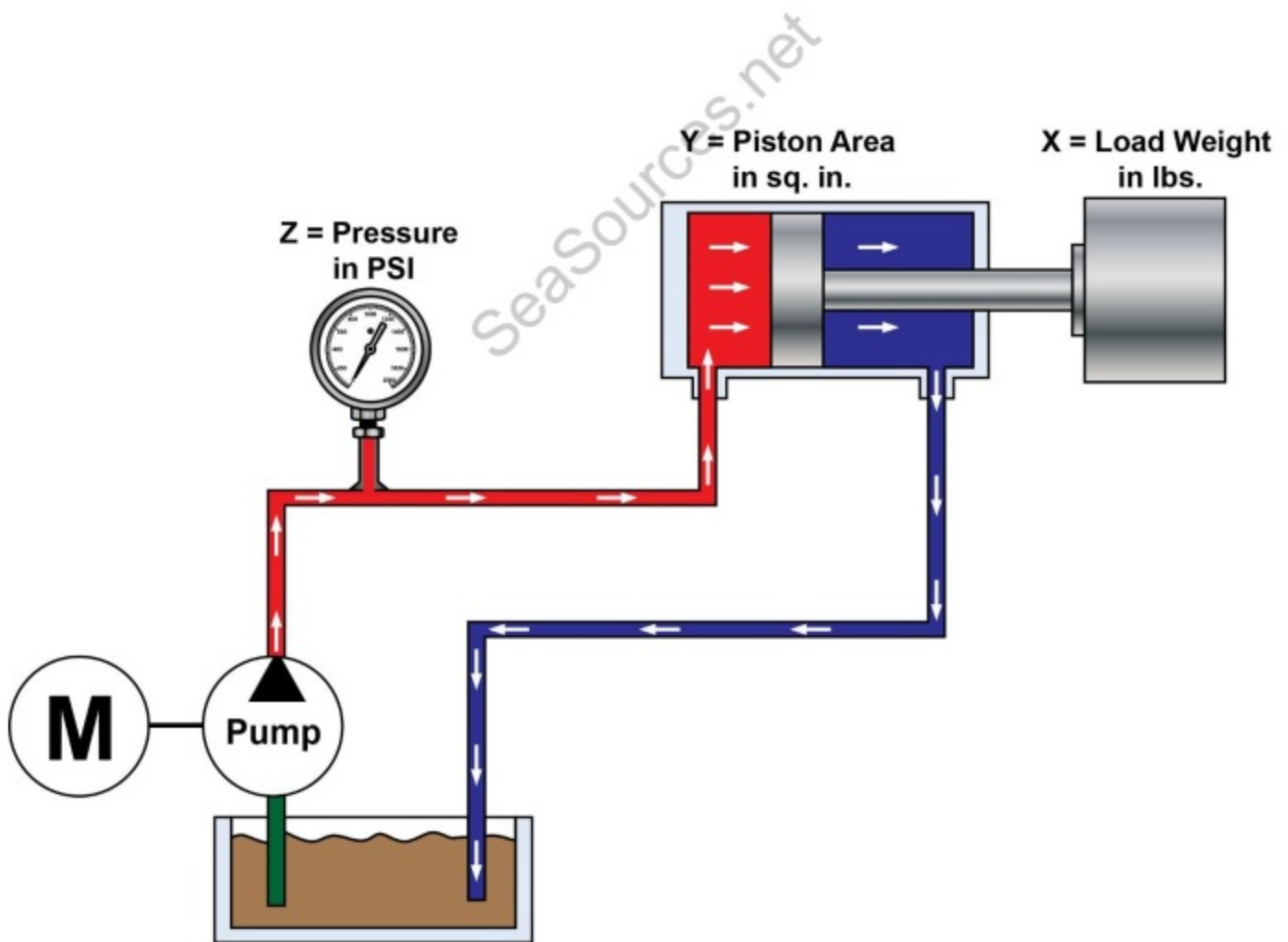
GS-0056



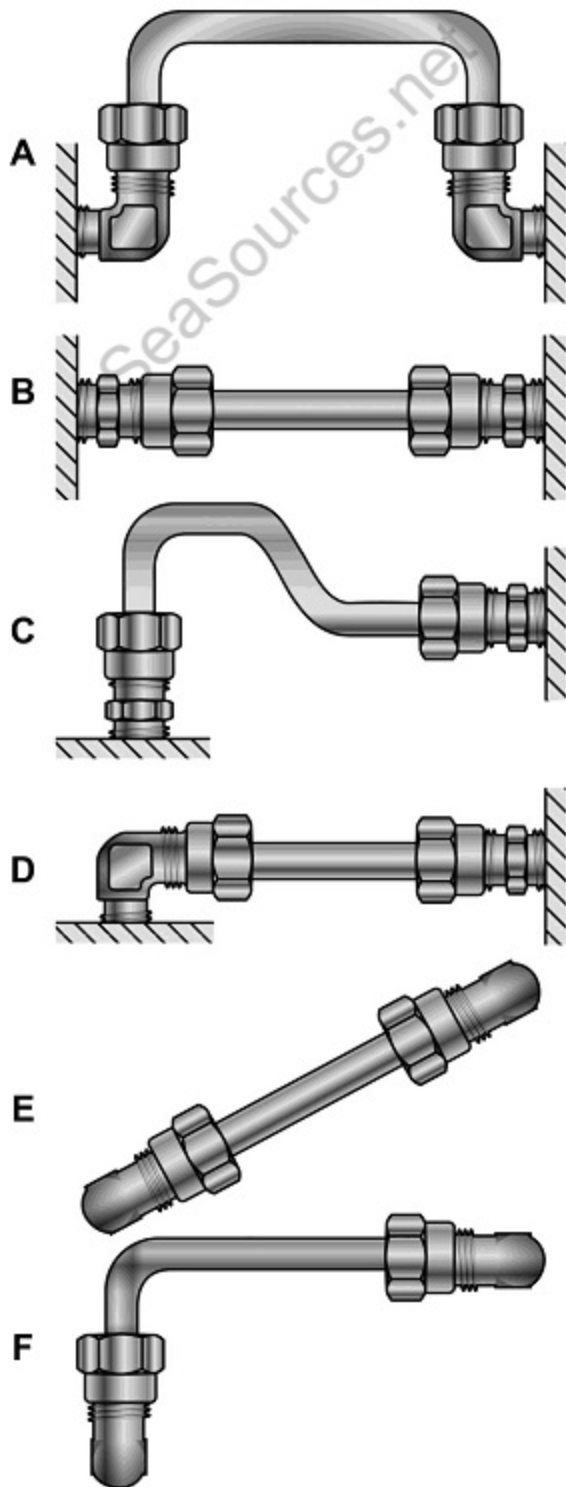
GS-0058



GS-0062



GS-0065



GS-0067

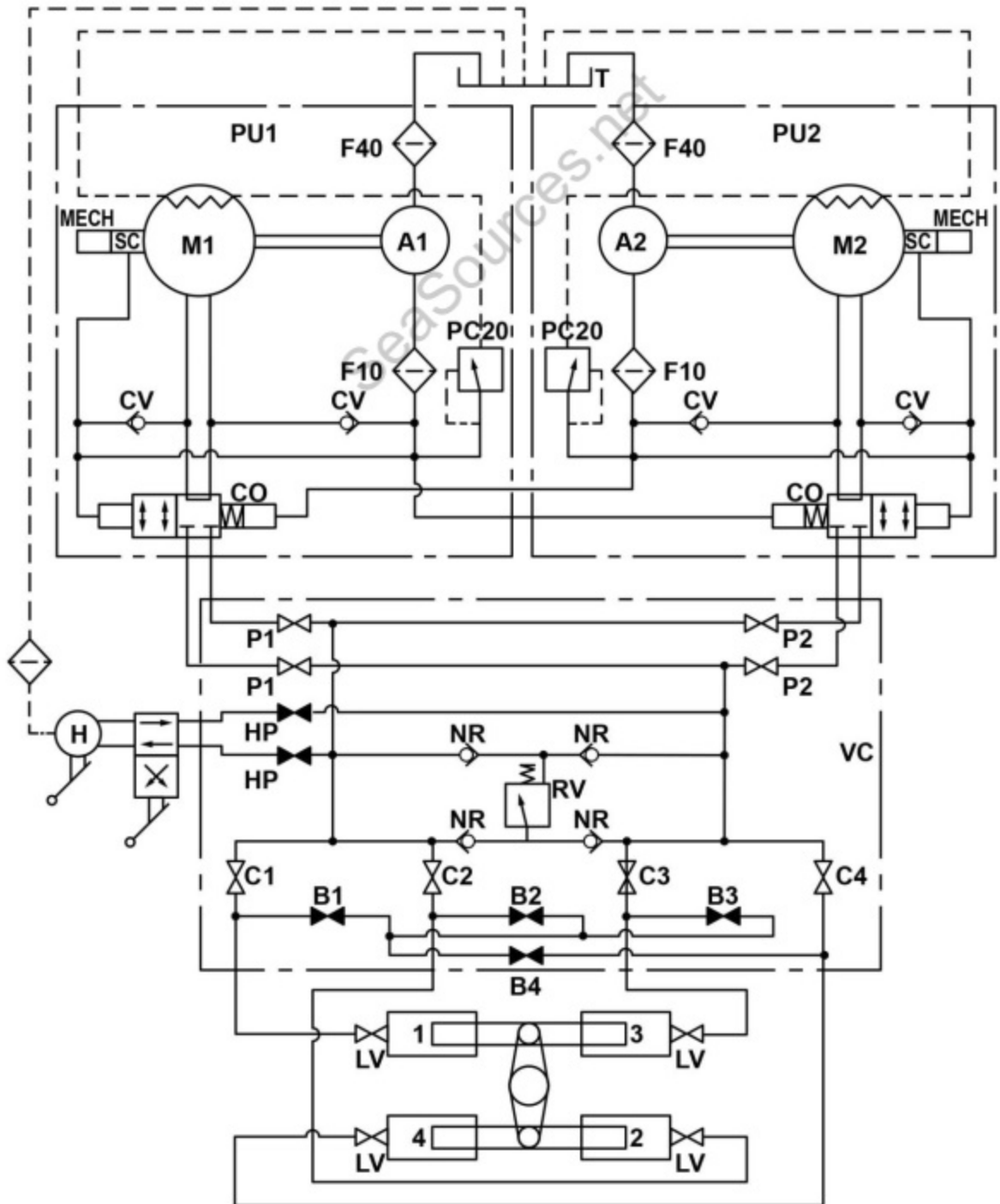




Fig. A



Fig. B

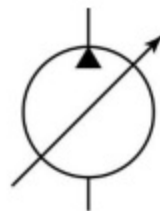


Fig. C

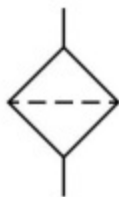


Fig. D

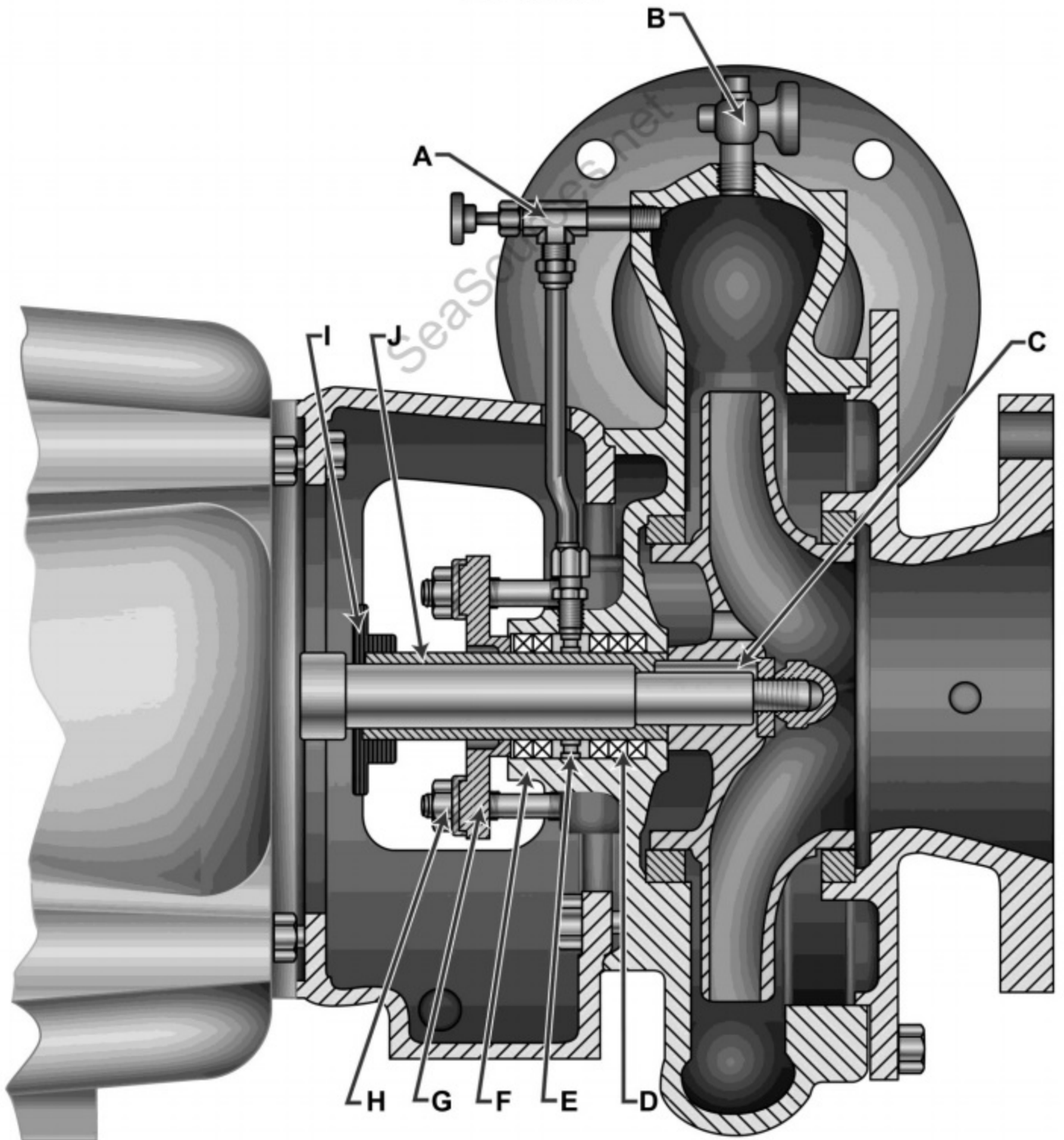


Fig. E

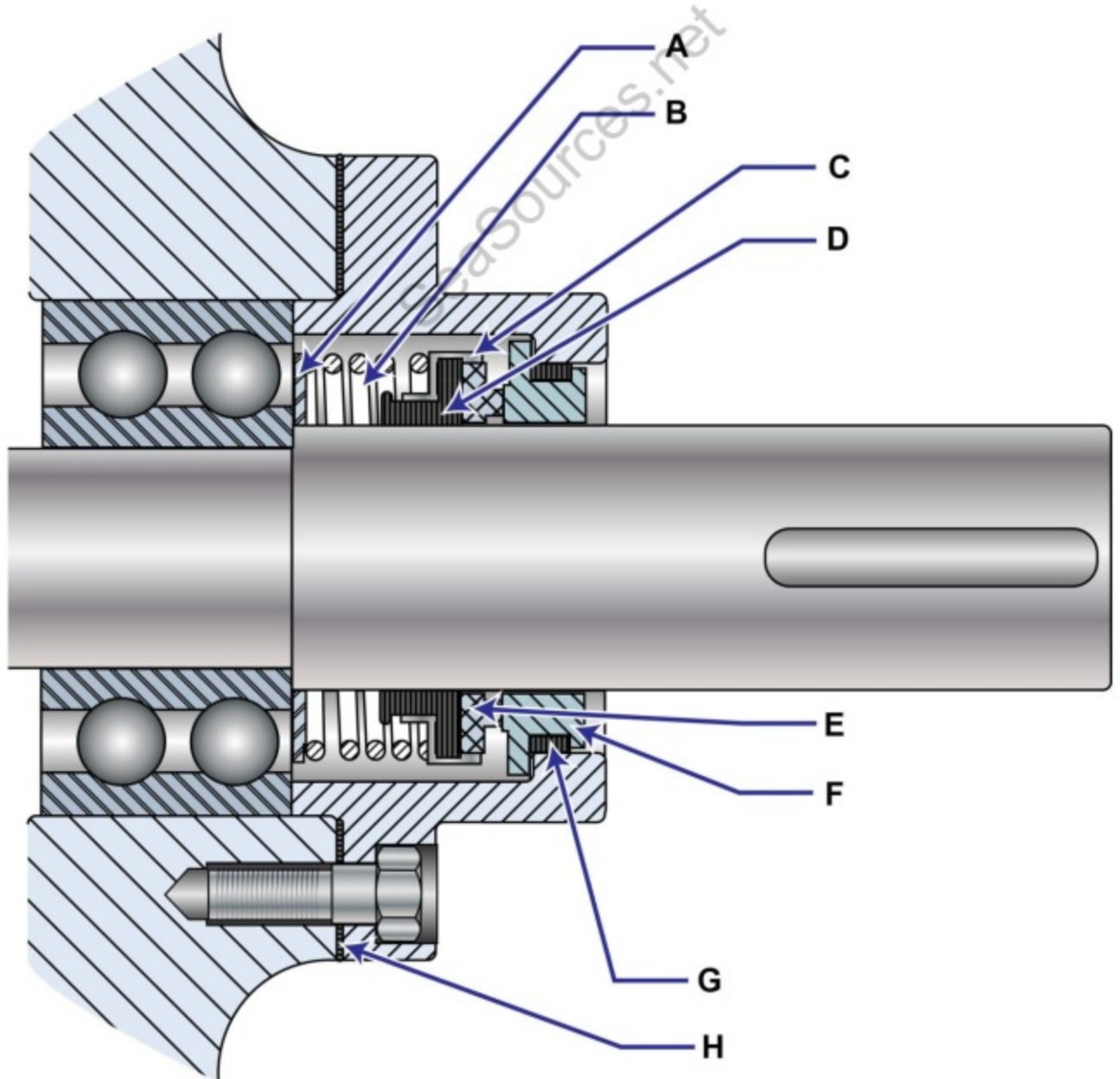


Fig. F

GS-0070

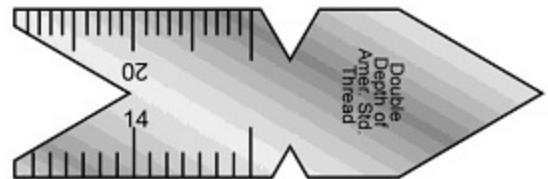
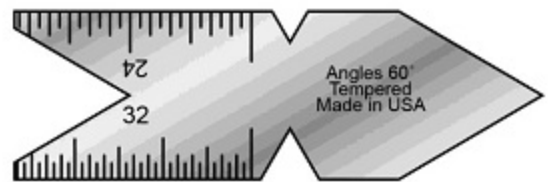
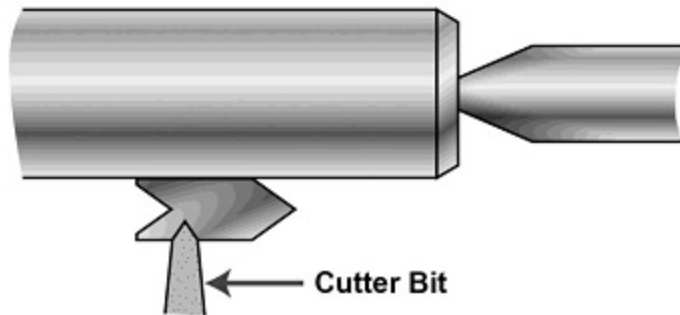


GS-0071

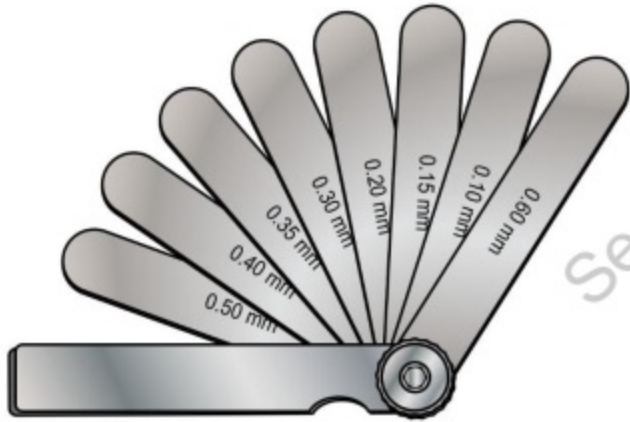


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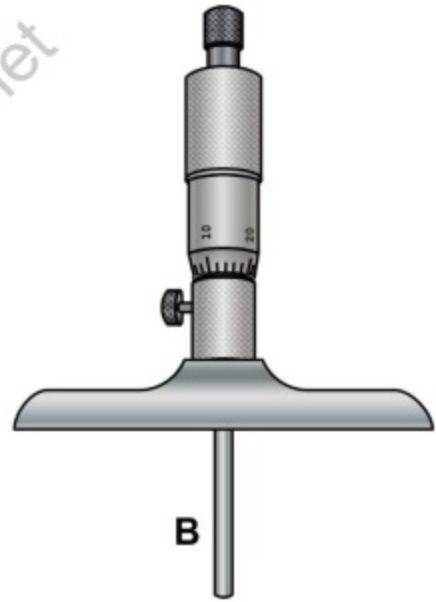
SeaSources.net



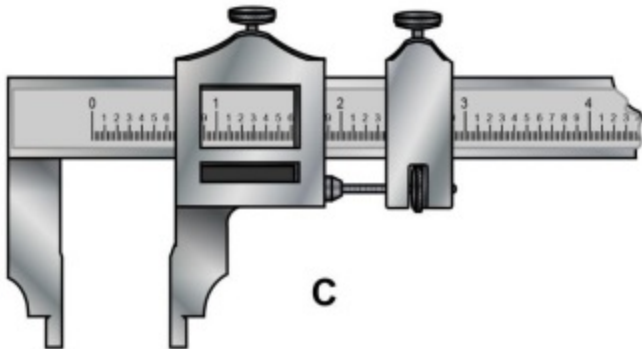
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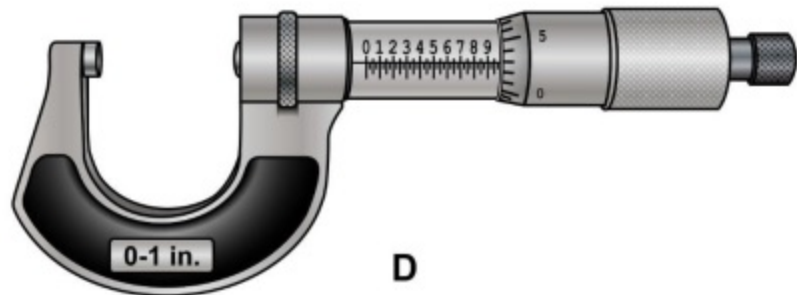
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B

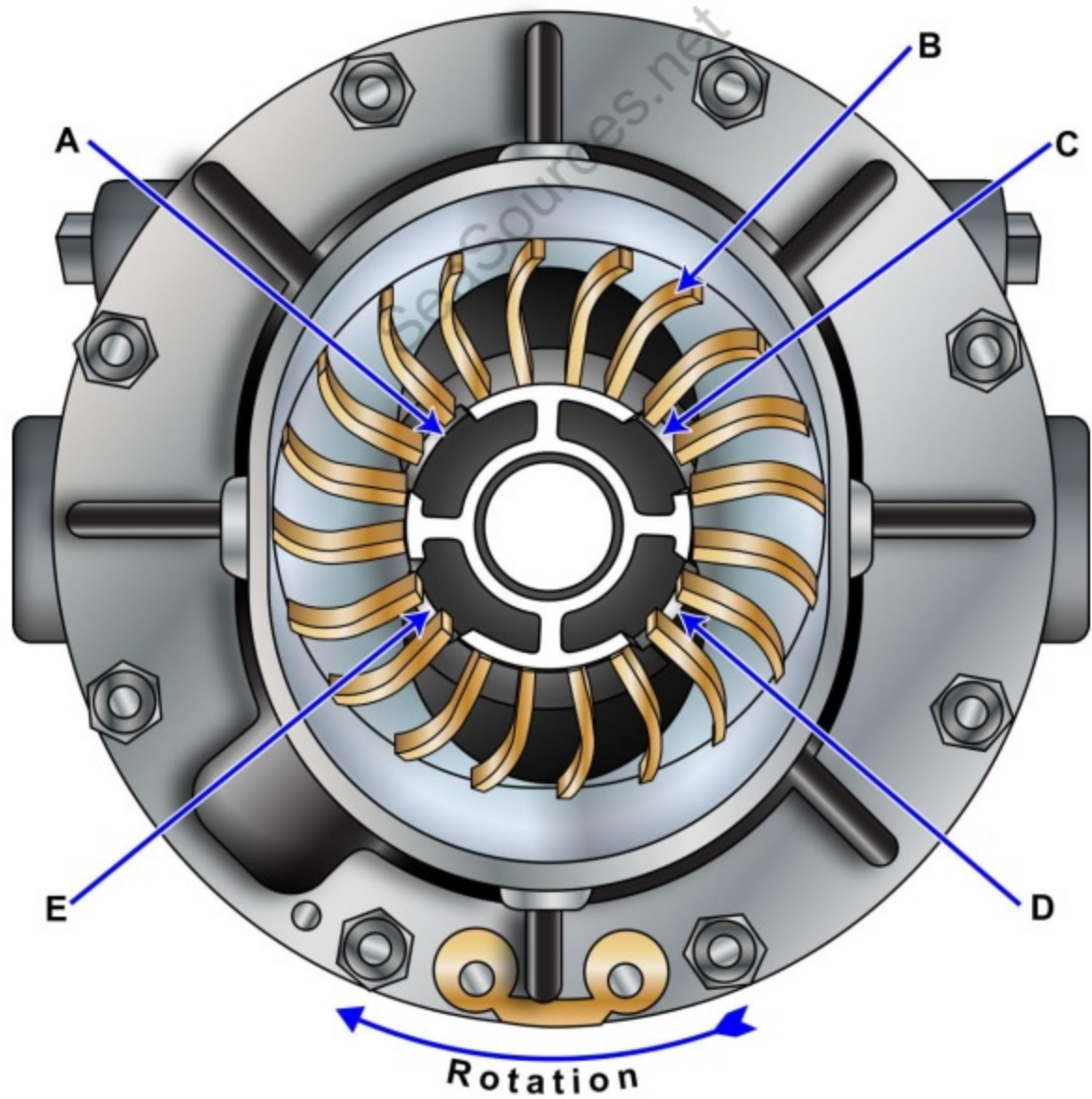


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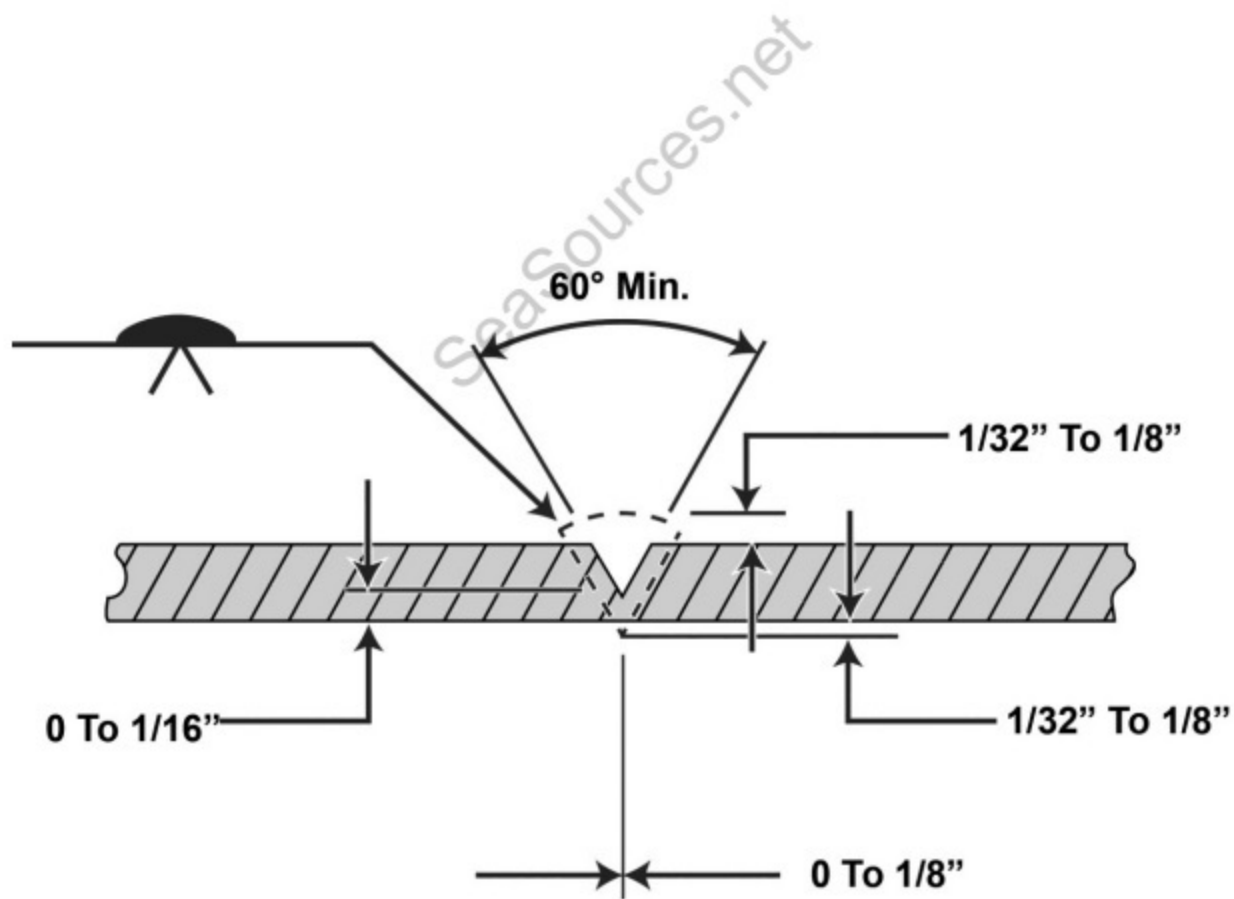


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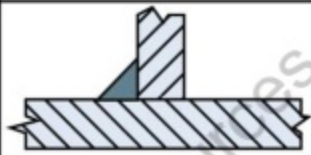
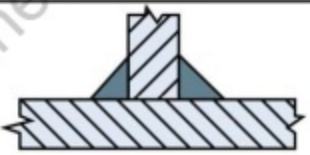







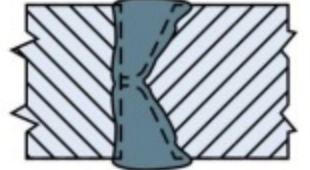


GS-0075



GS-0076

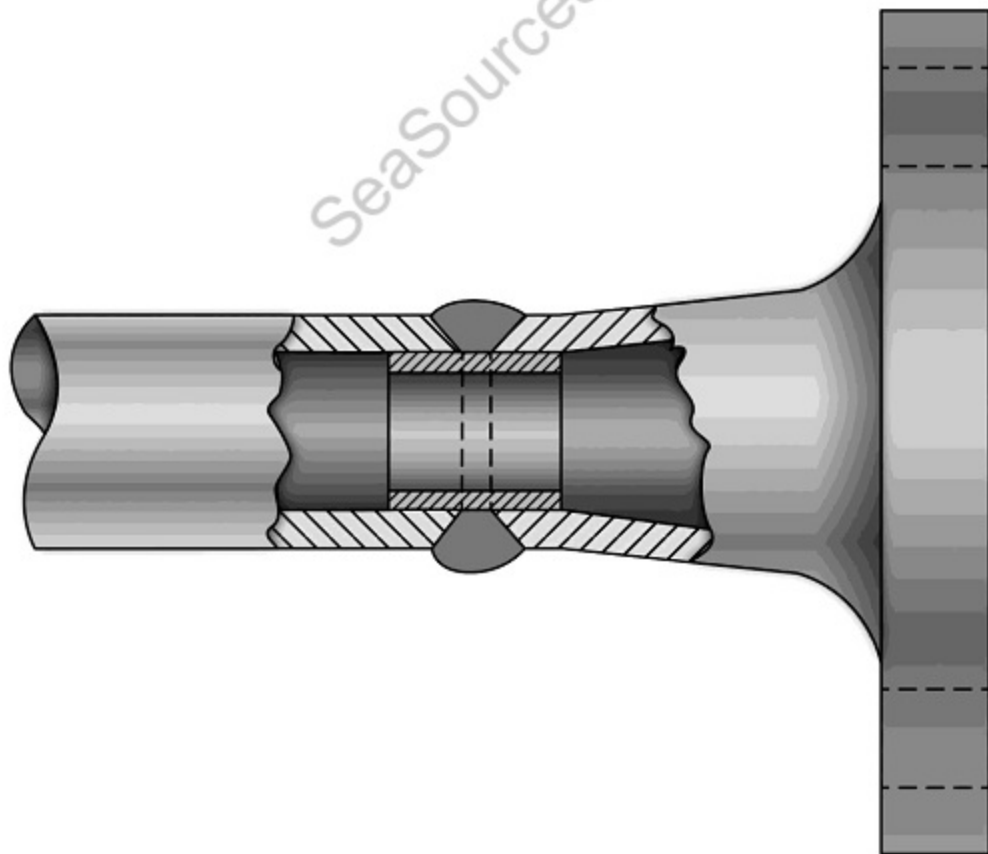


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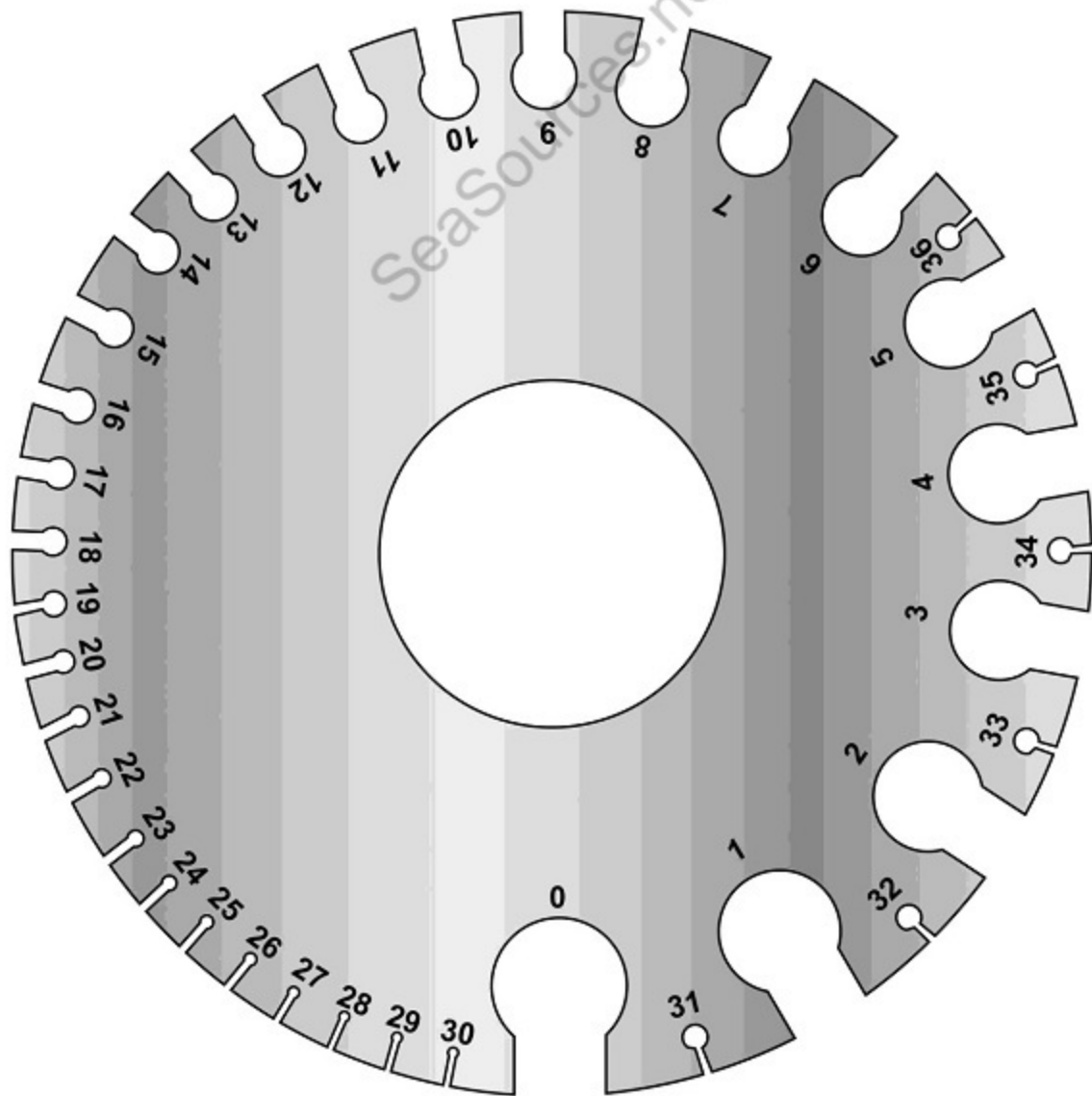
	A	B
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2		
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GS-0078

SeaSources.net



GS-0079



GS-0080



A



B



C



D



E



F



G



H



I



J



K



L



M



N

GS-0080



A



B



C



D



E



F



G



H



I



J



K



L



M



N

GS-0080



A



B



C



D



E



F



G



H



I



J



K



L

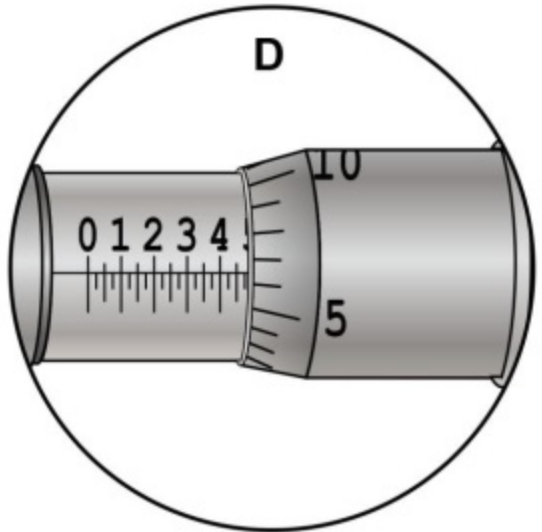
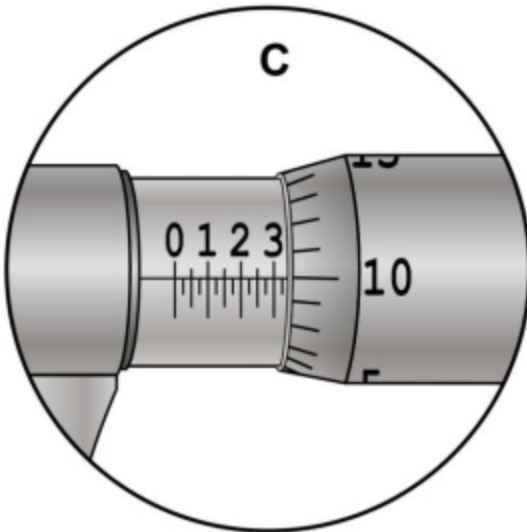
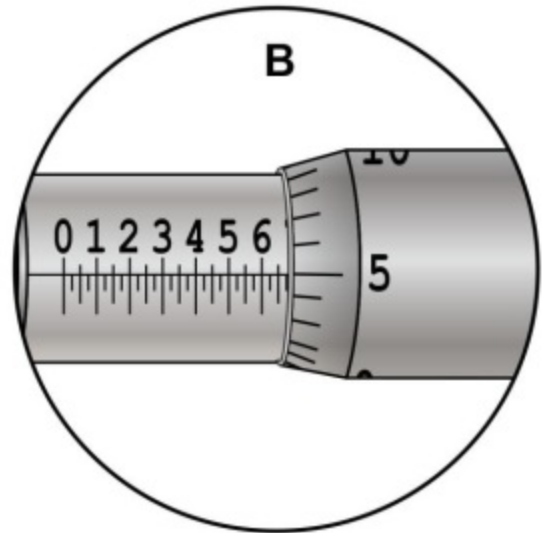
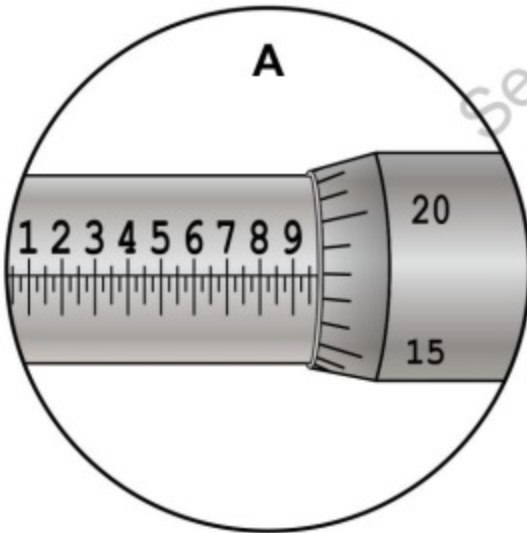


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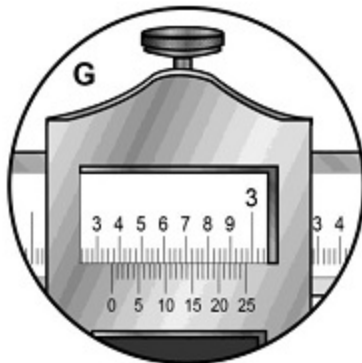
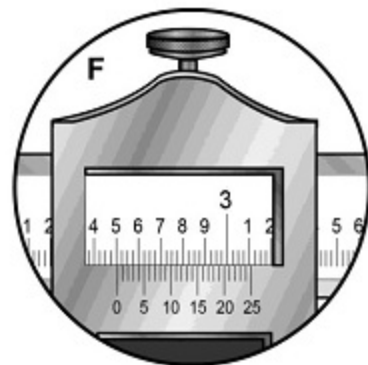
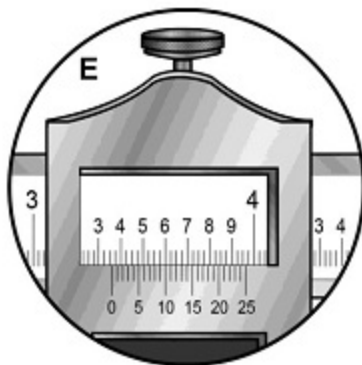
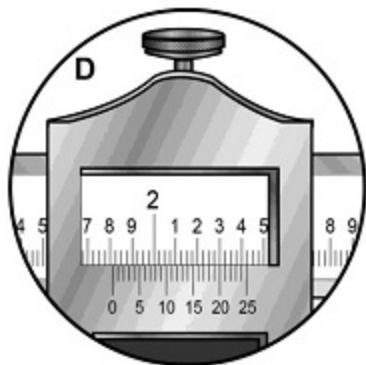
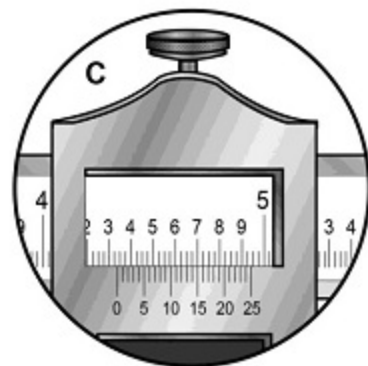
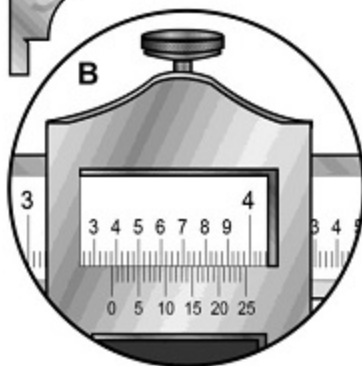
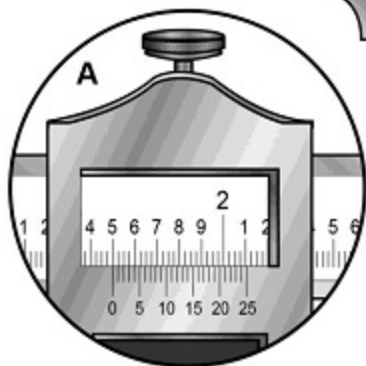
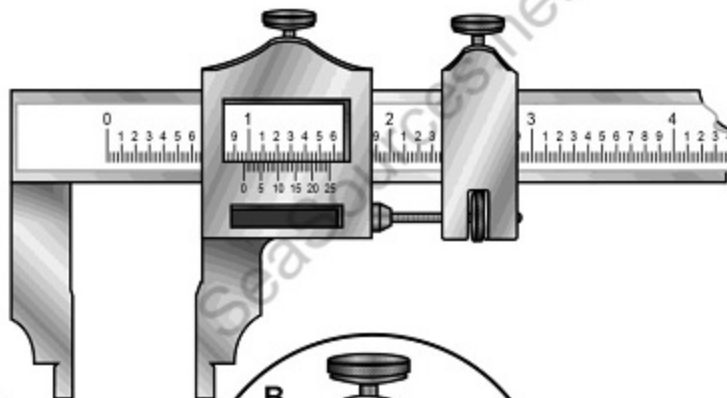


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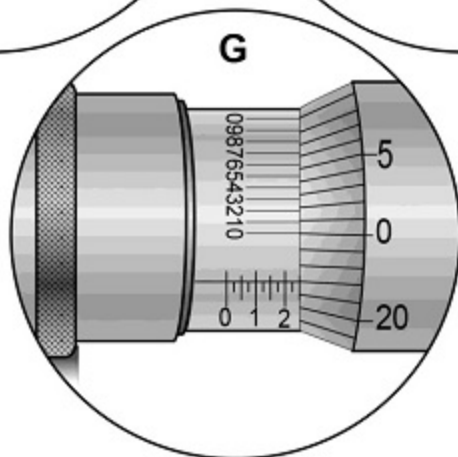
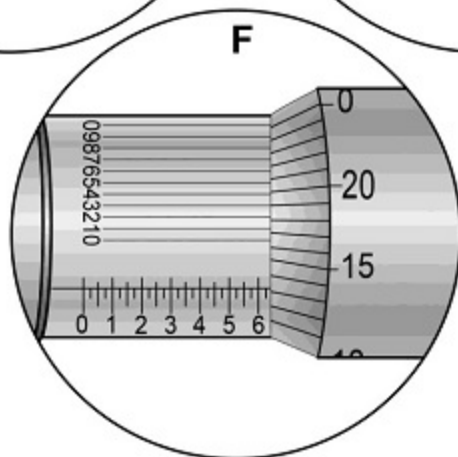
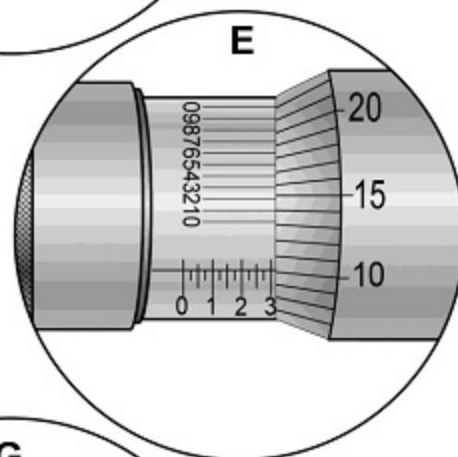
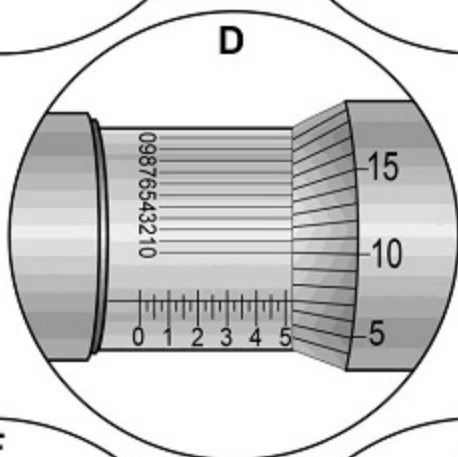
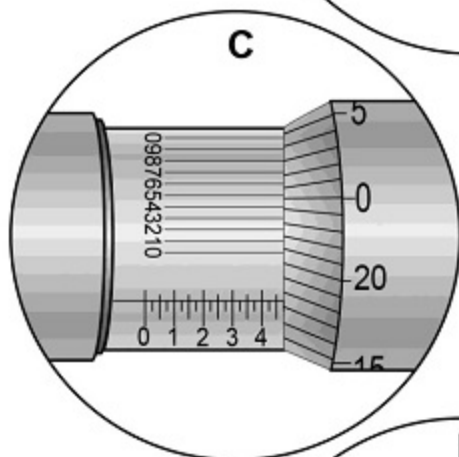
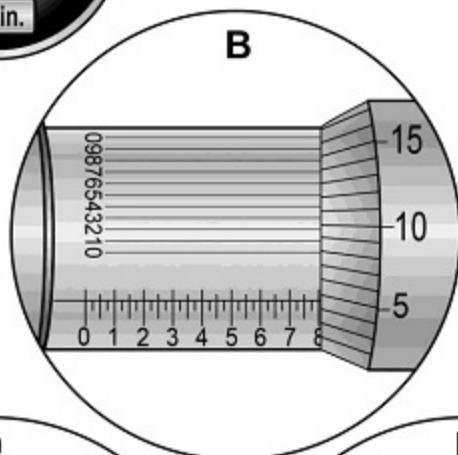
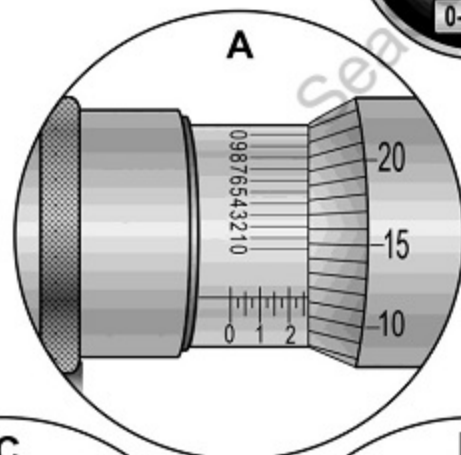
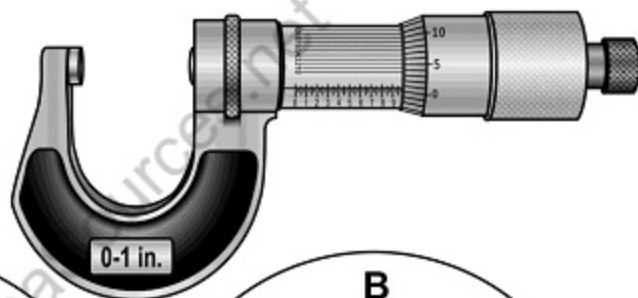
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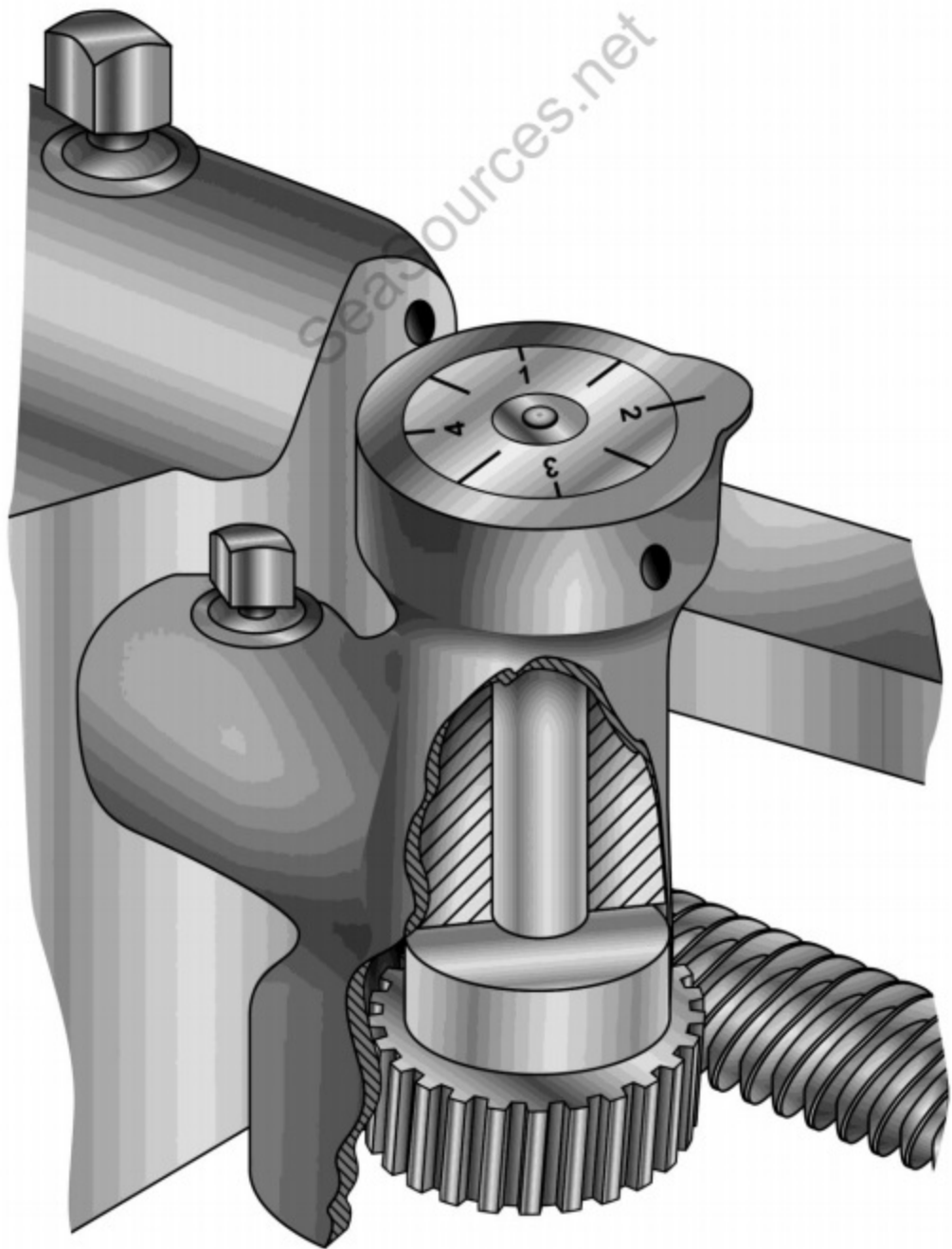
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GS-0083

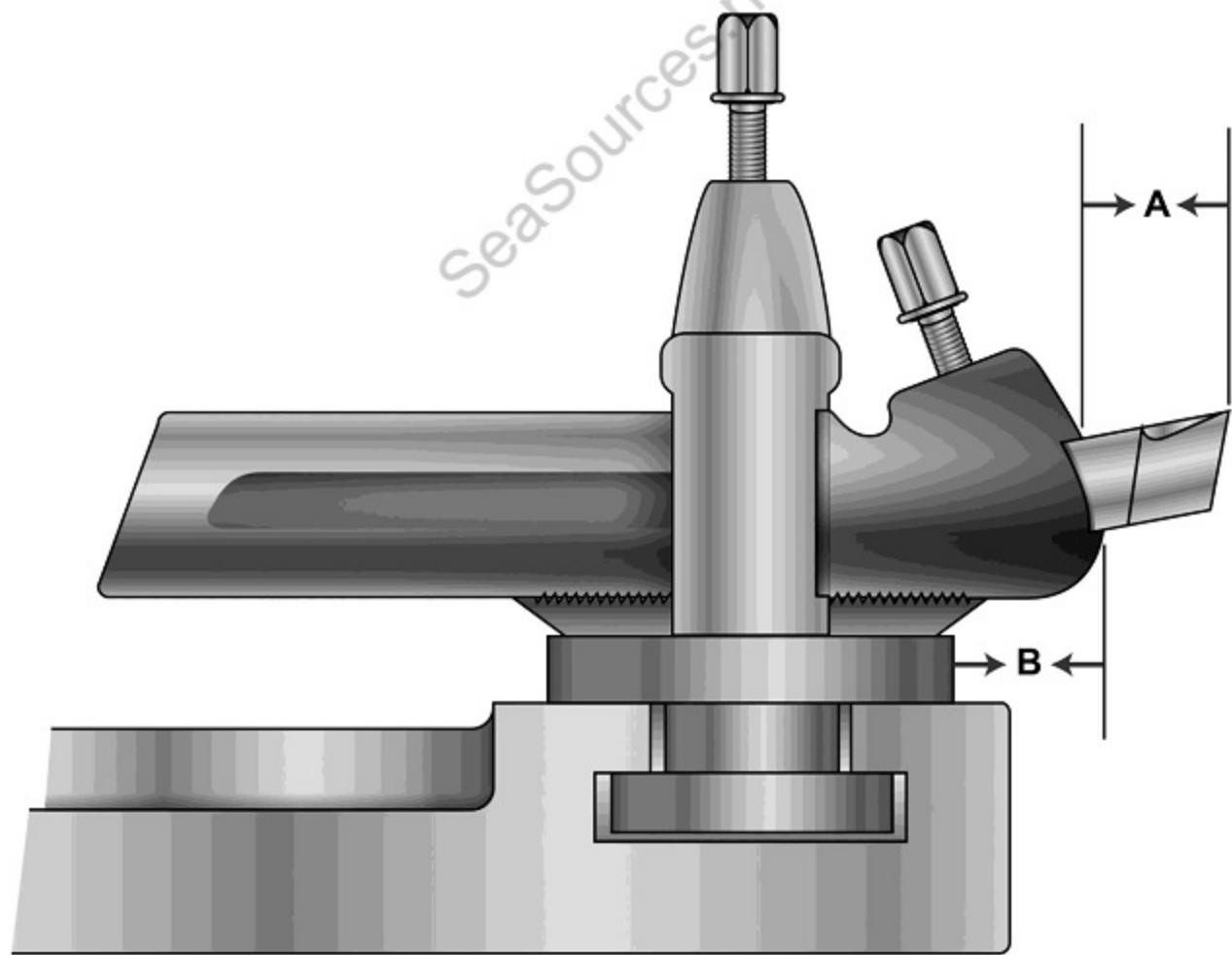


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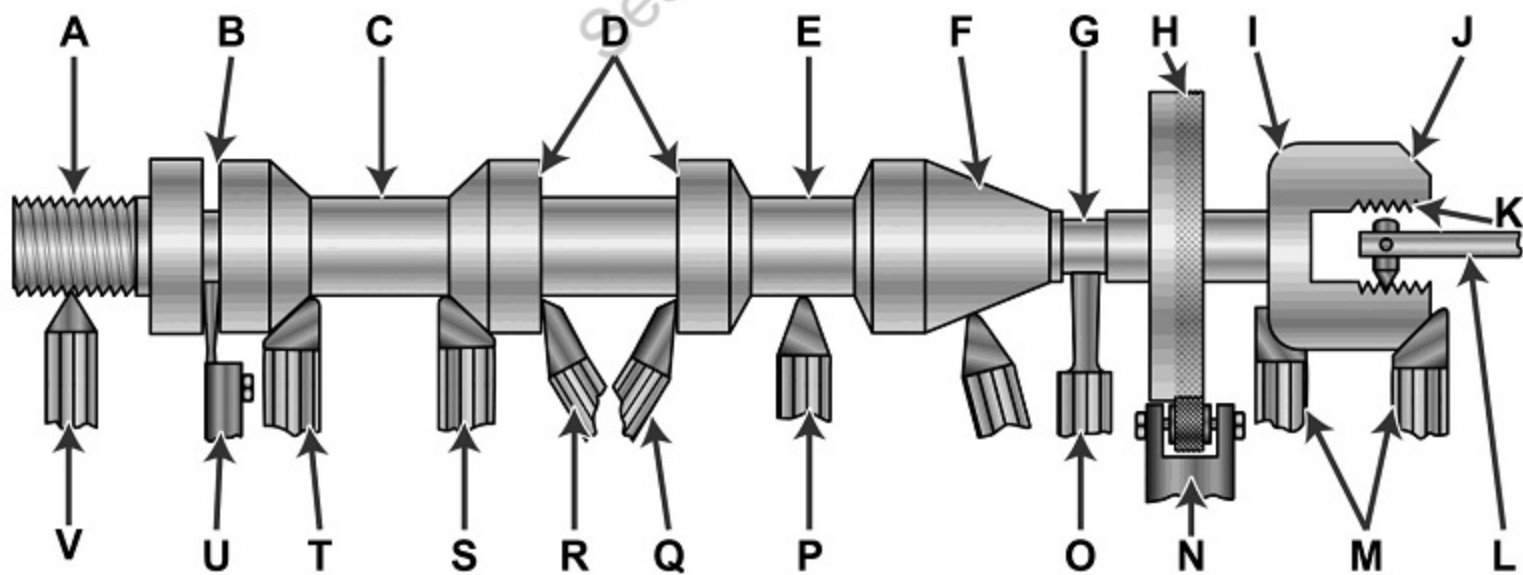


3/14/16

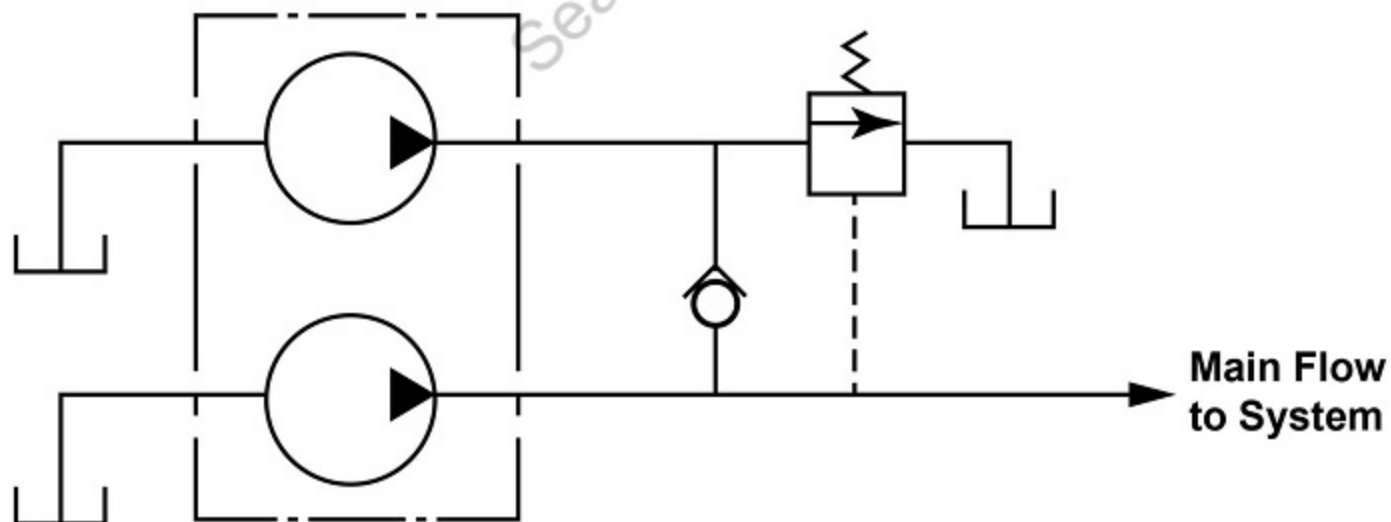
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GS-0090

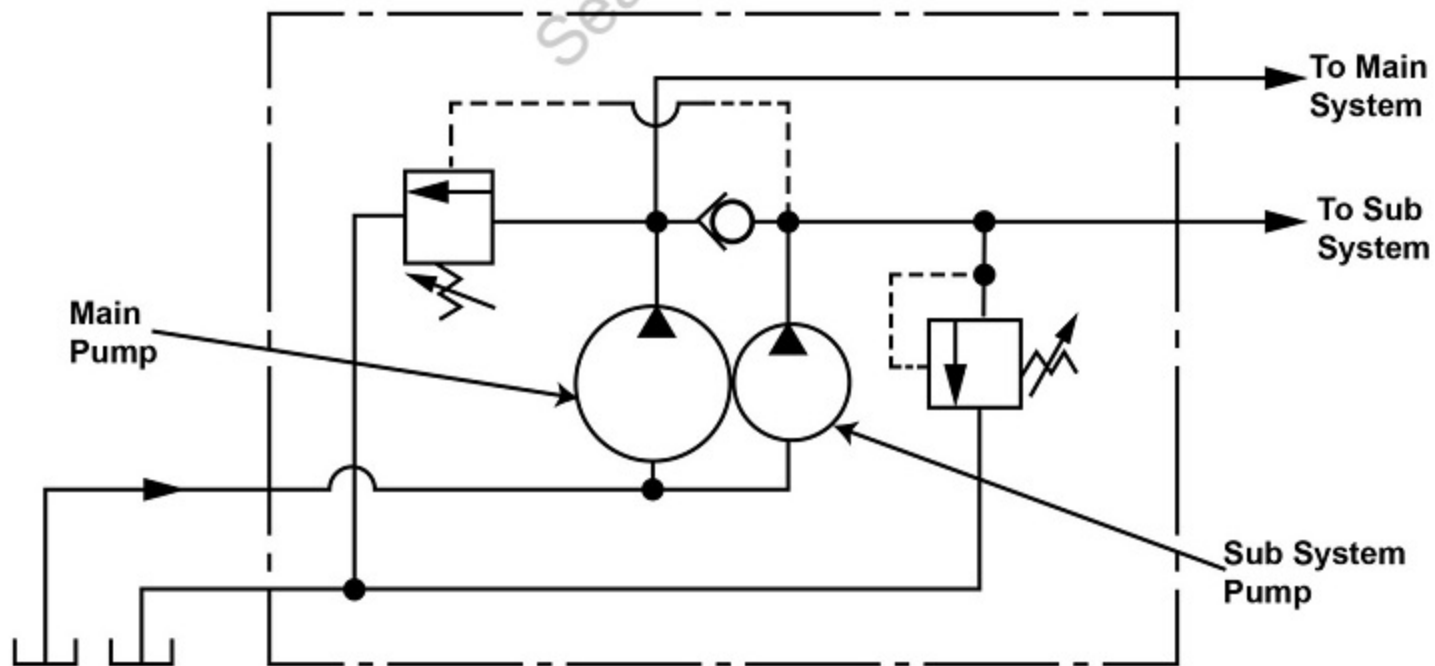


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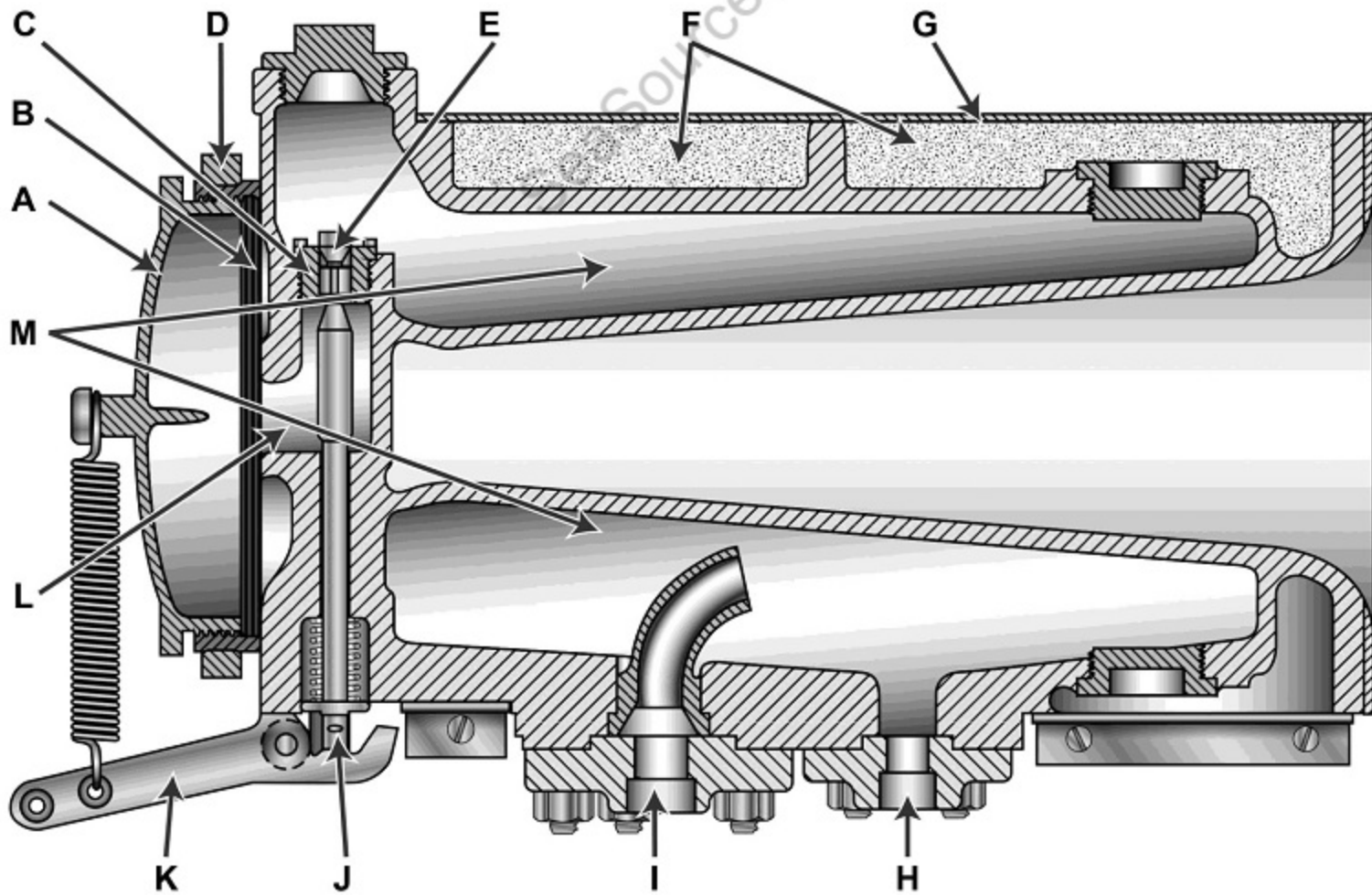


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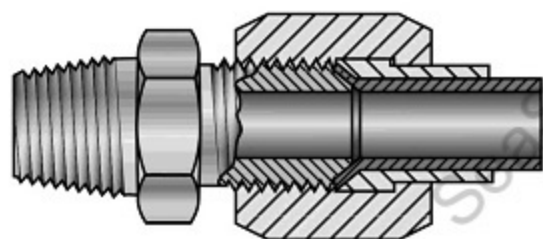
SeaSources.net



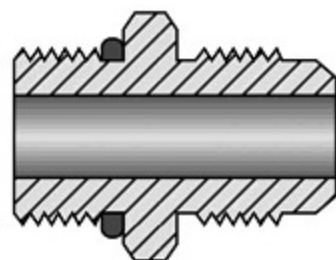
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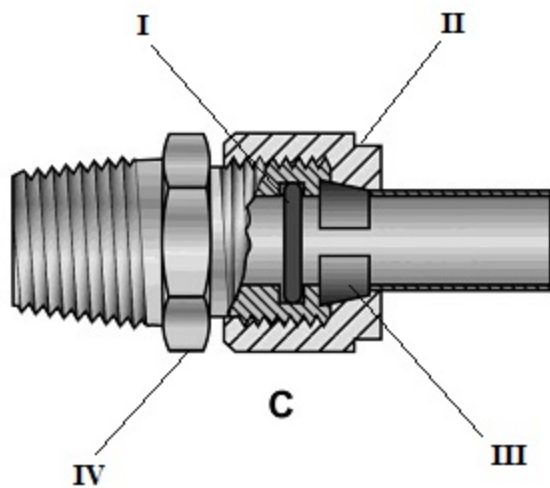
GS-0100



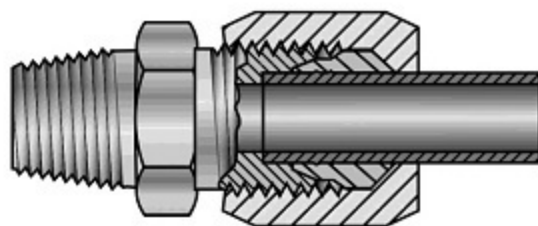
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B

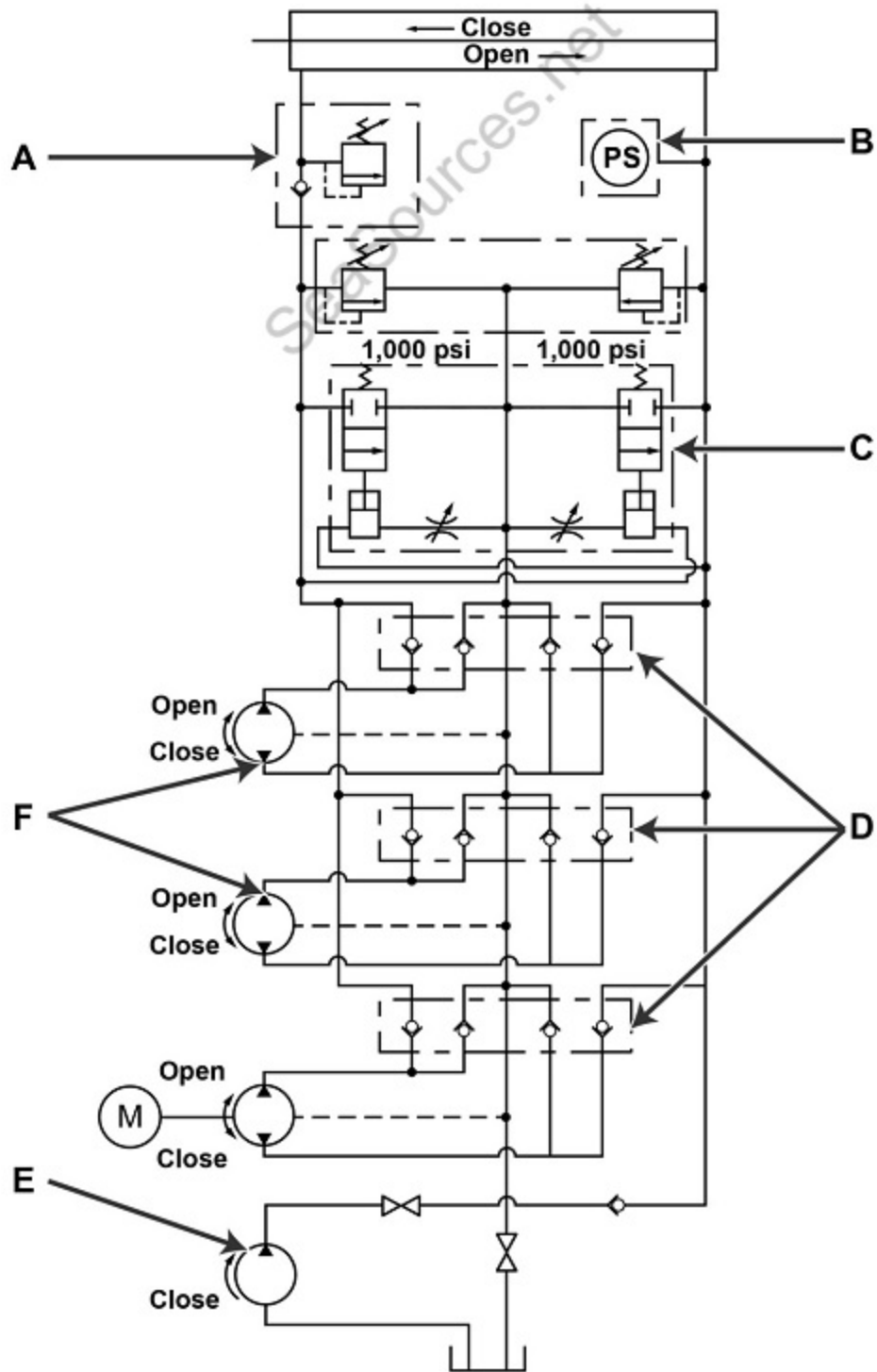


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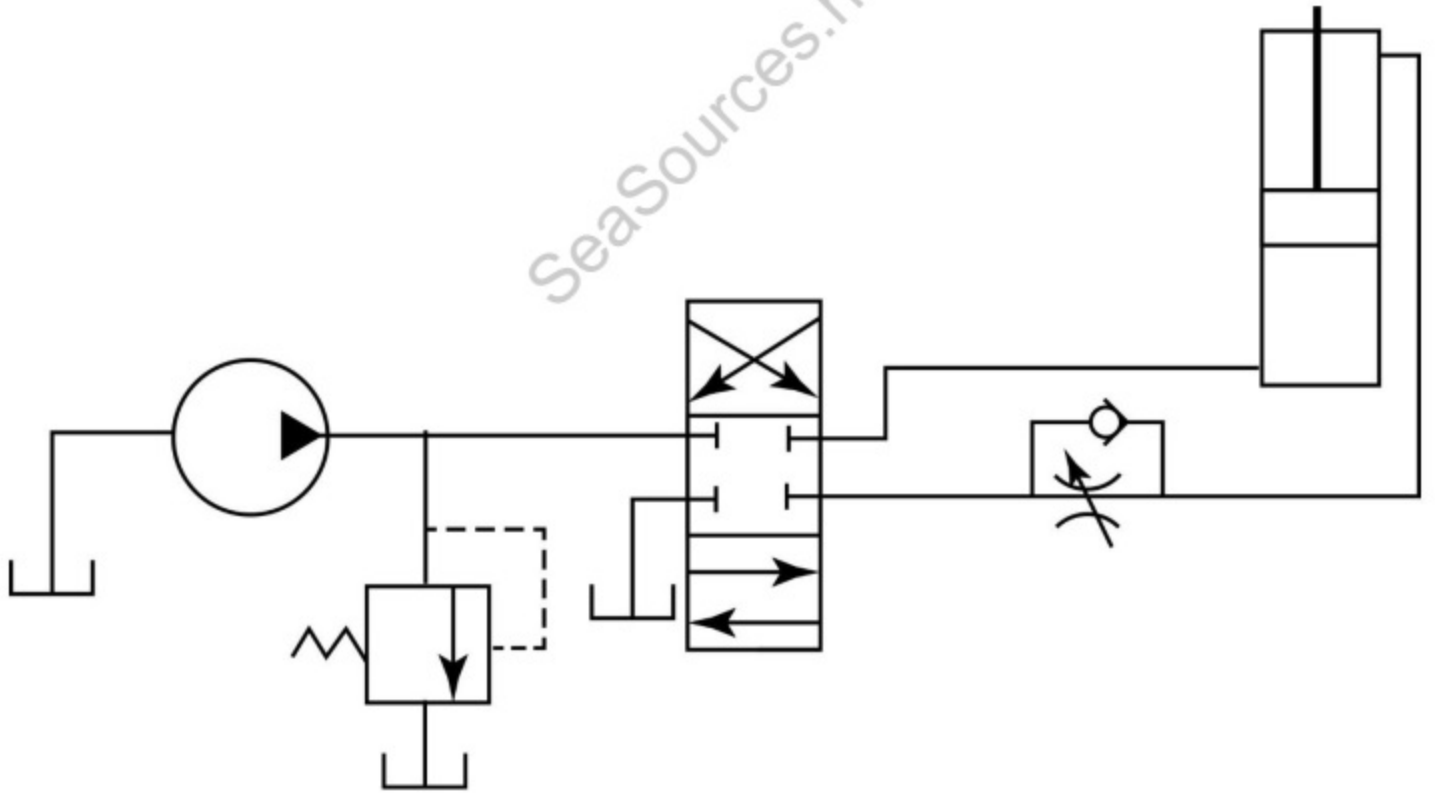
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GS-0103



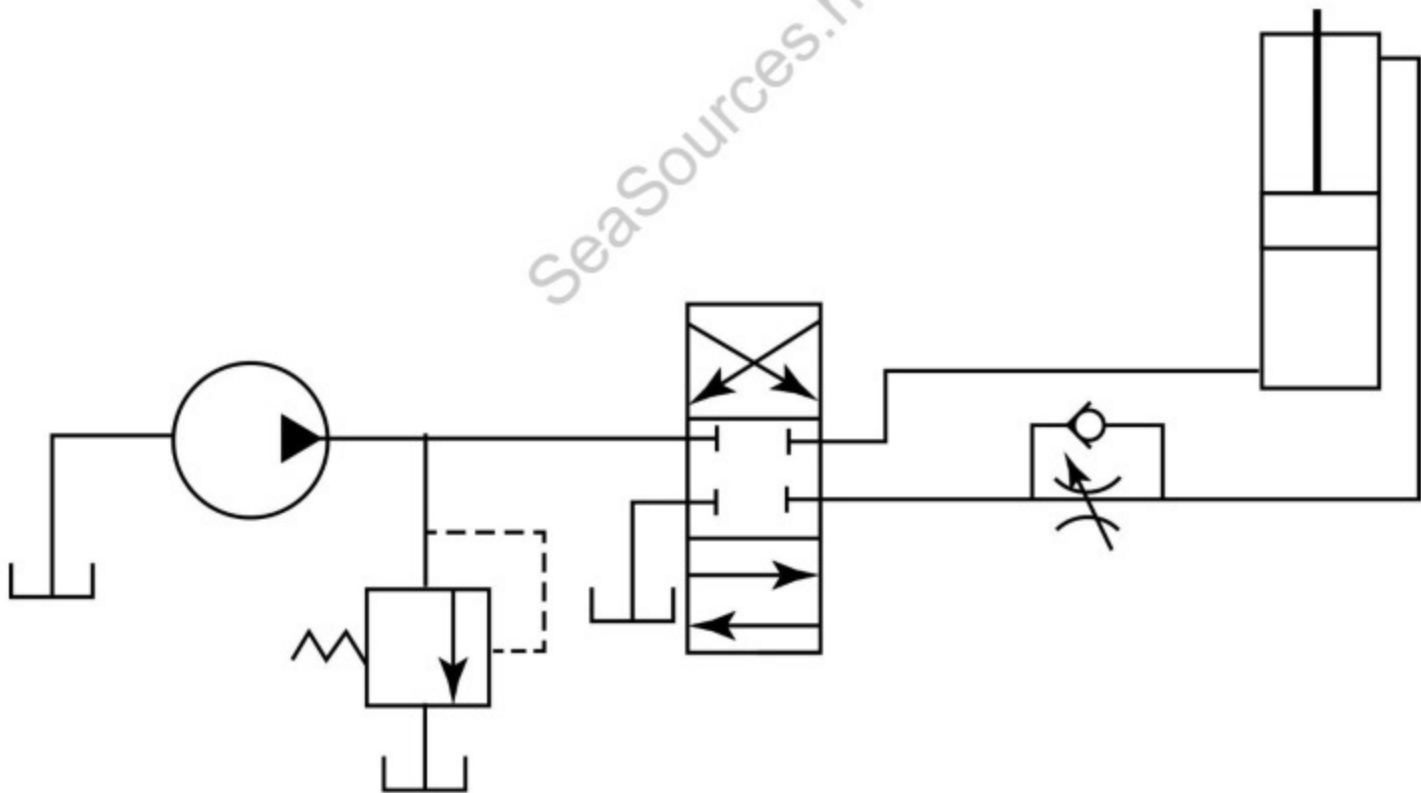
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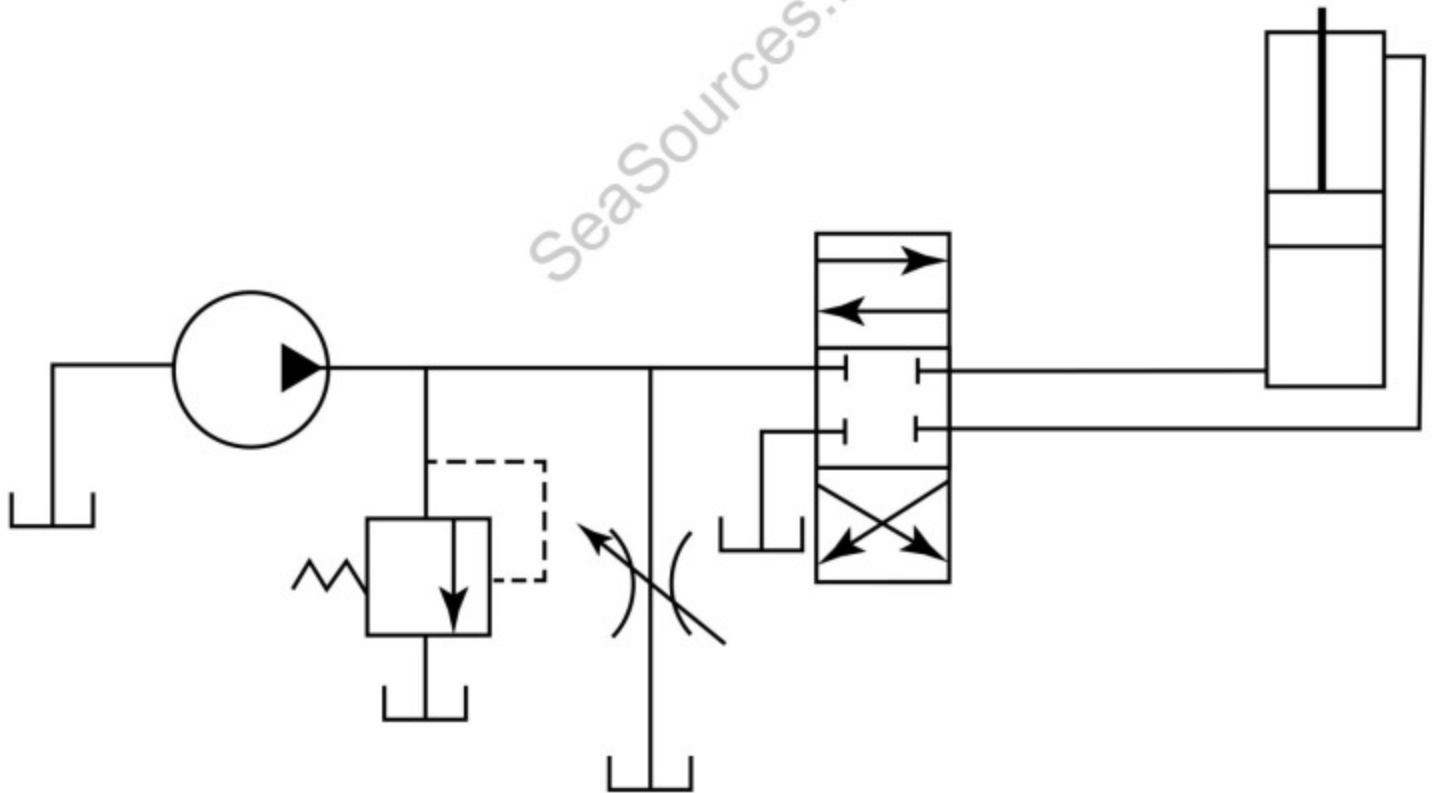
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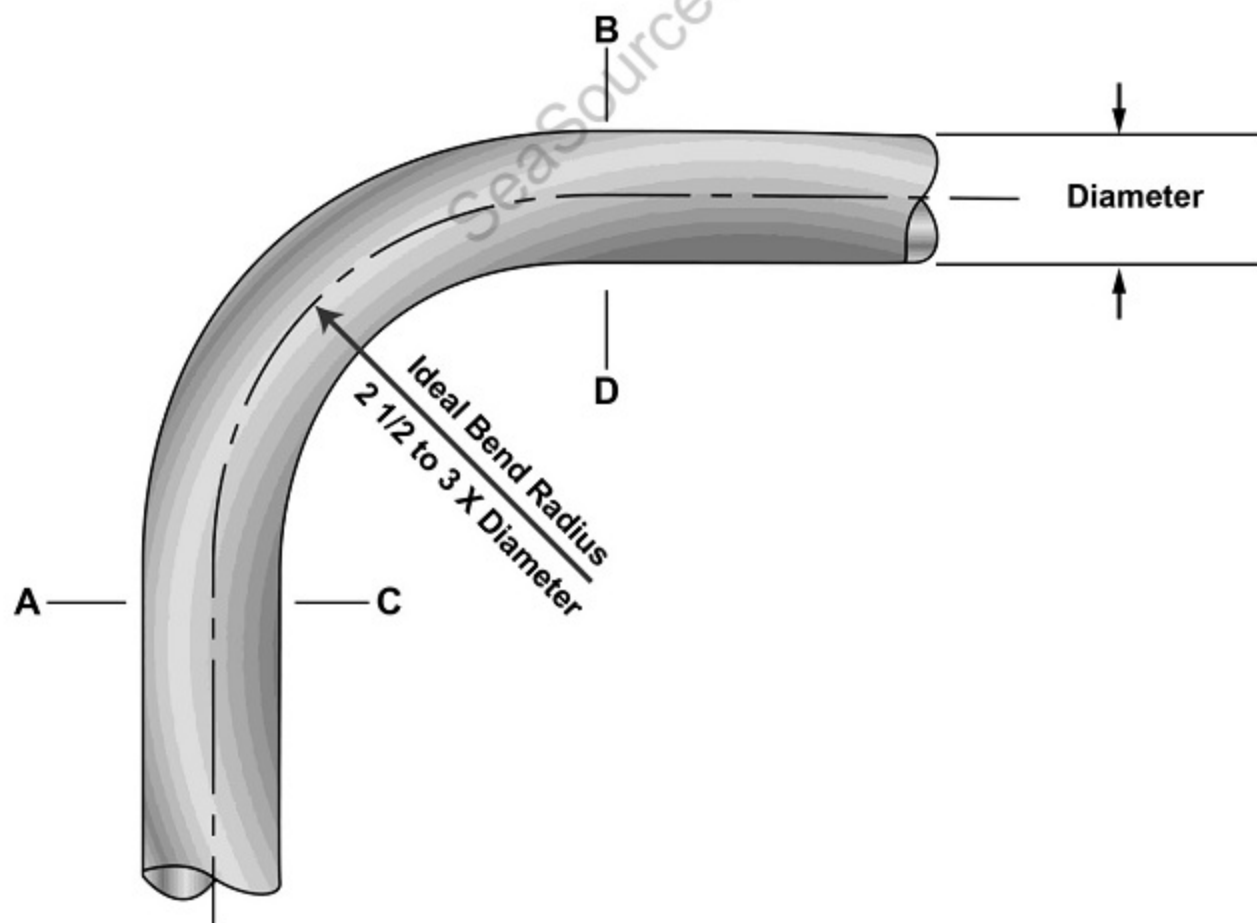


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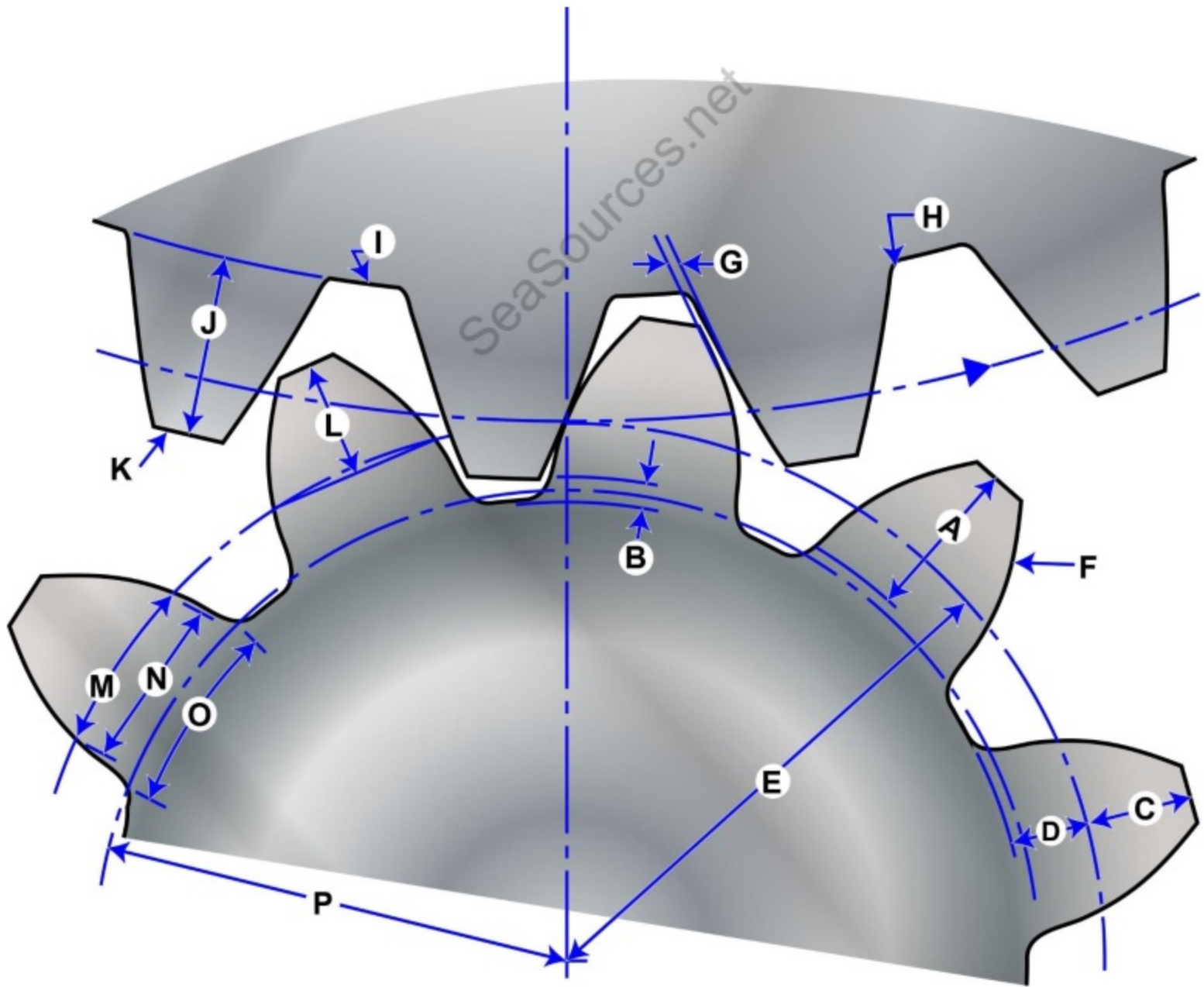
SeaSources.net



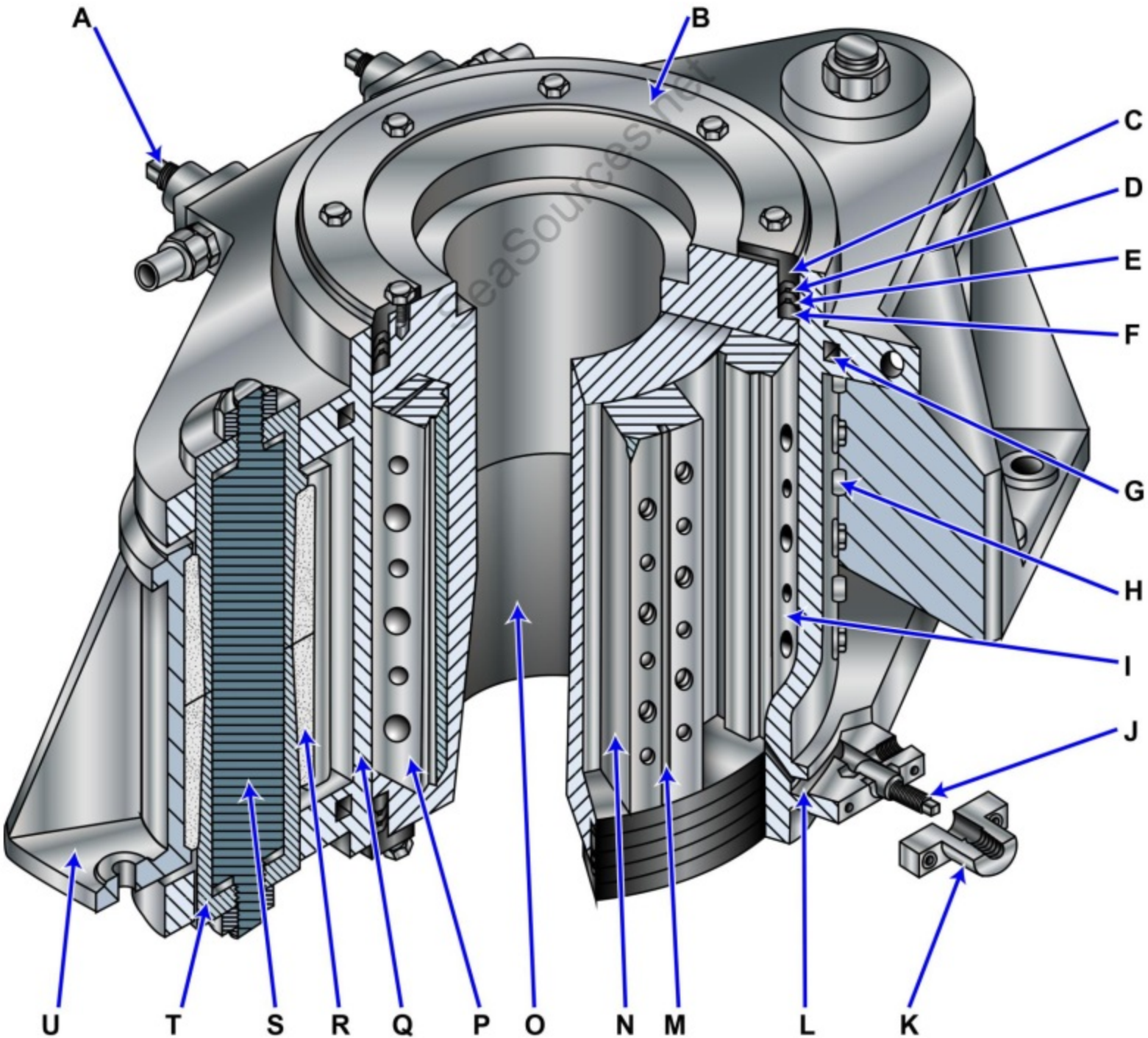
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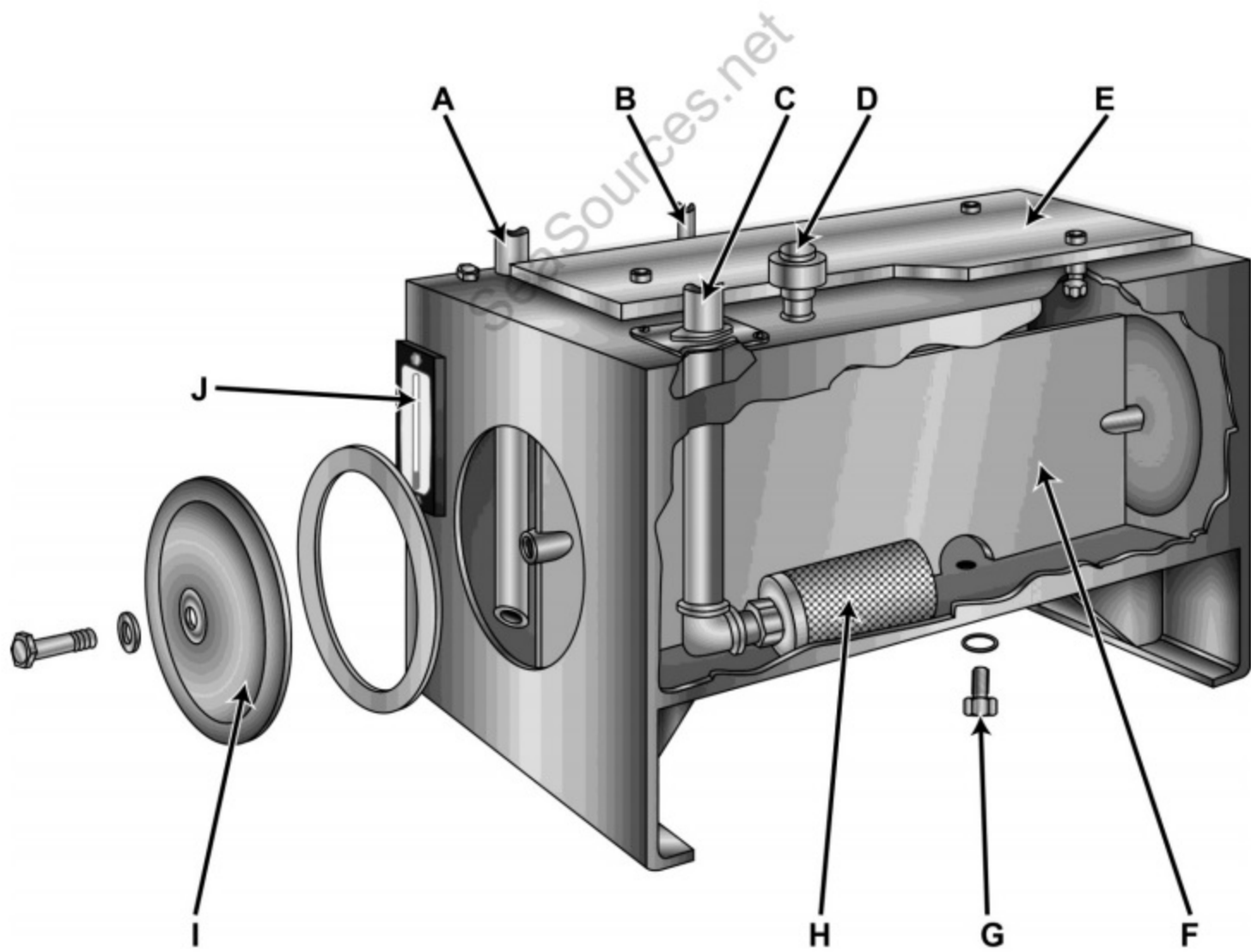
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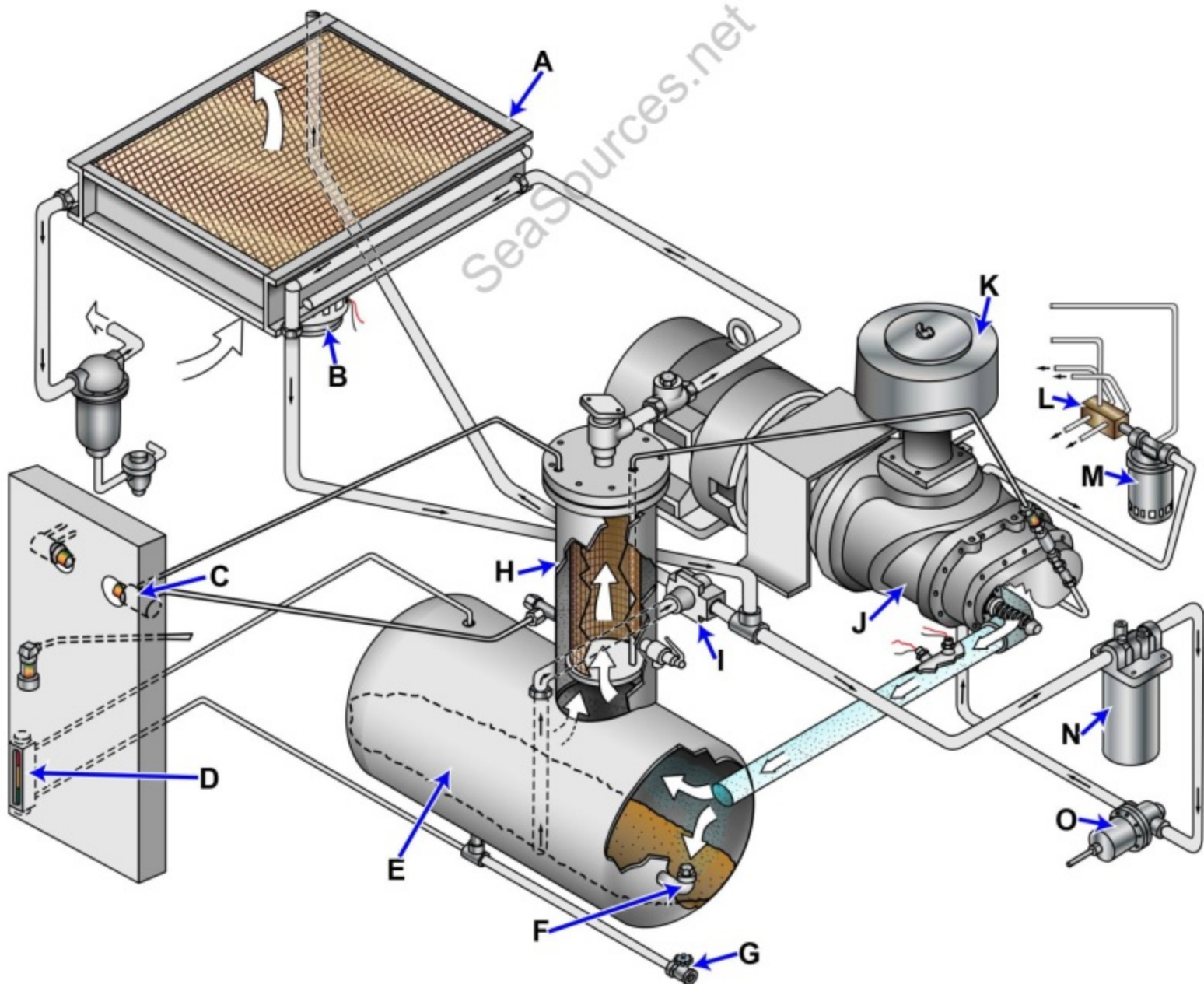
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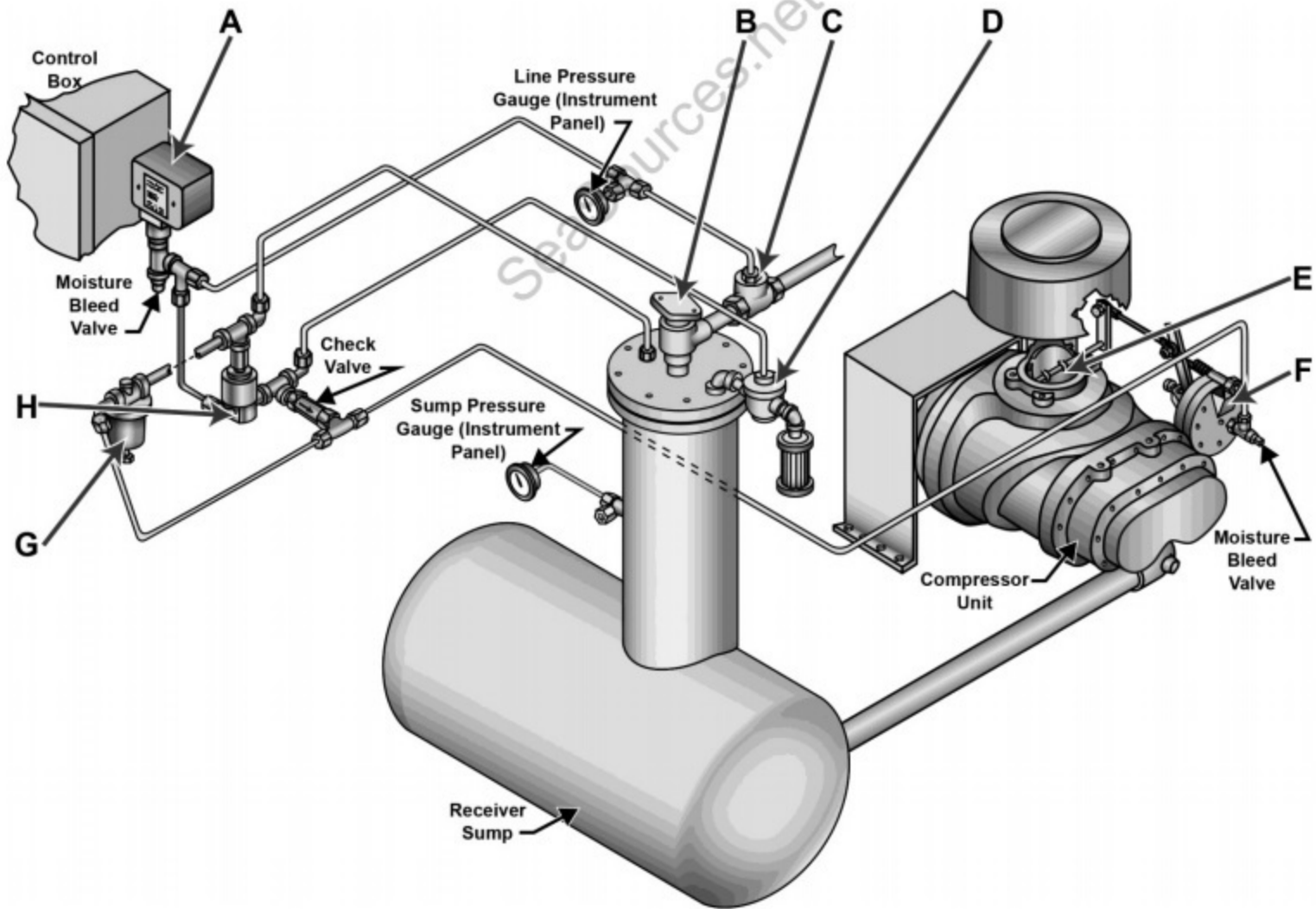
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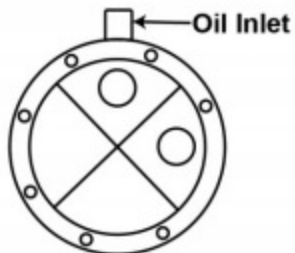
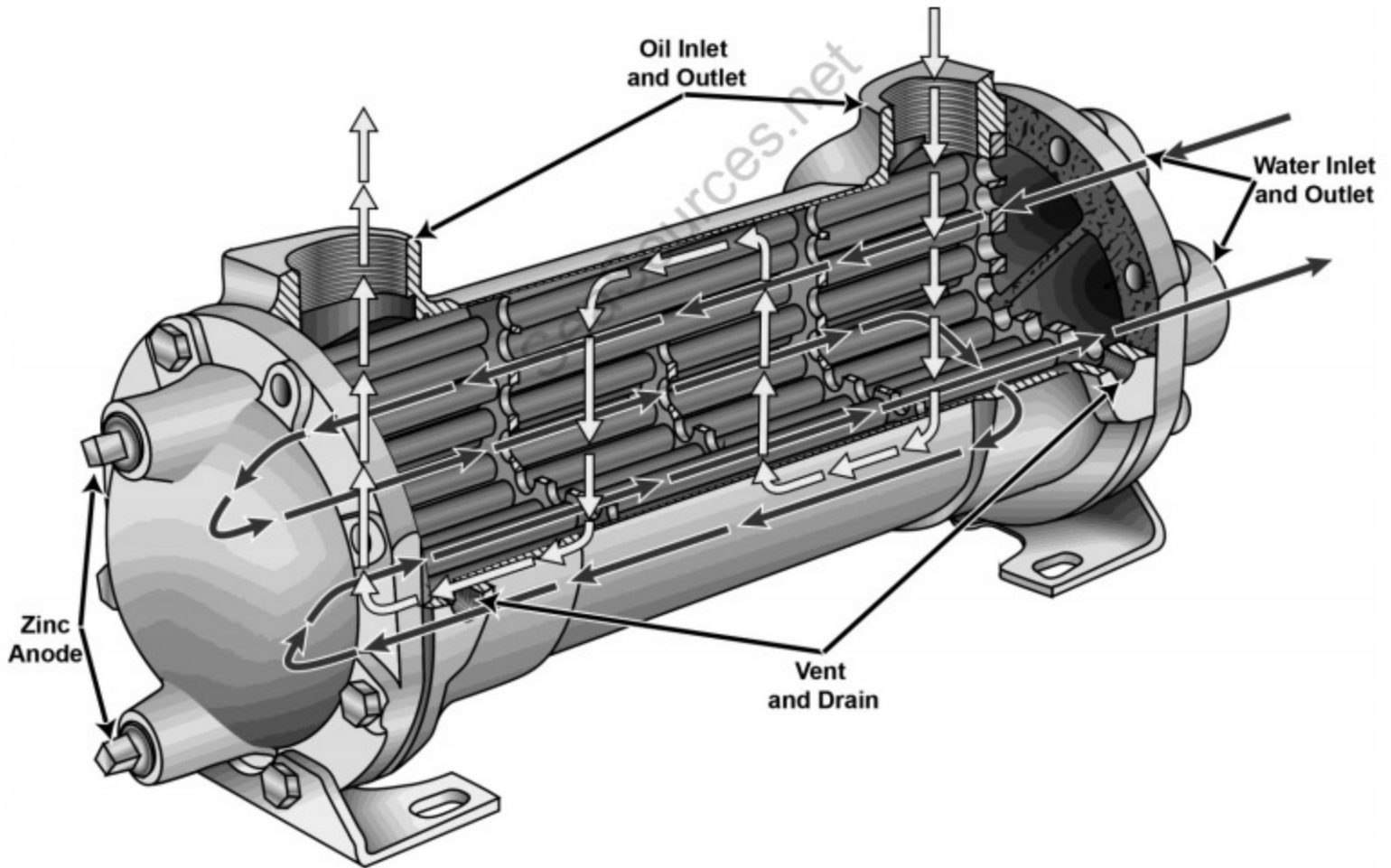
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GS-0120



GS-0122



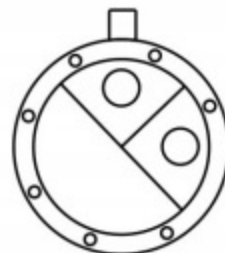
A



B

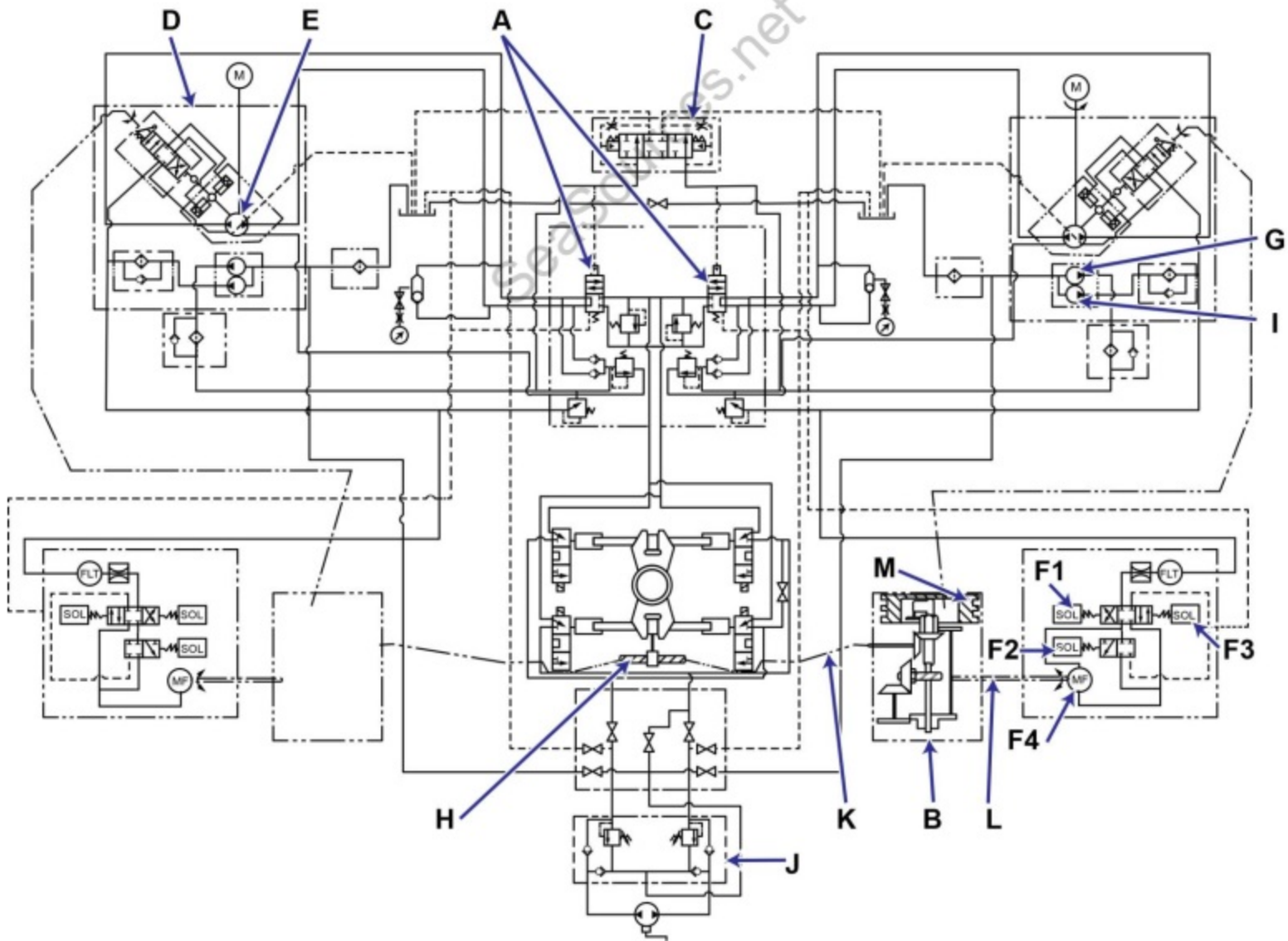


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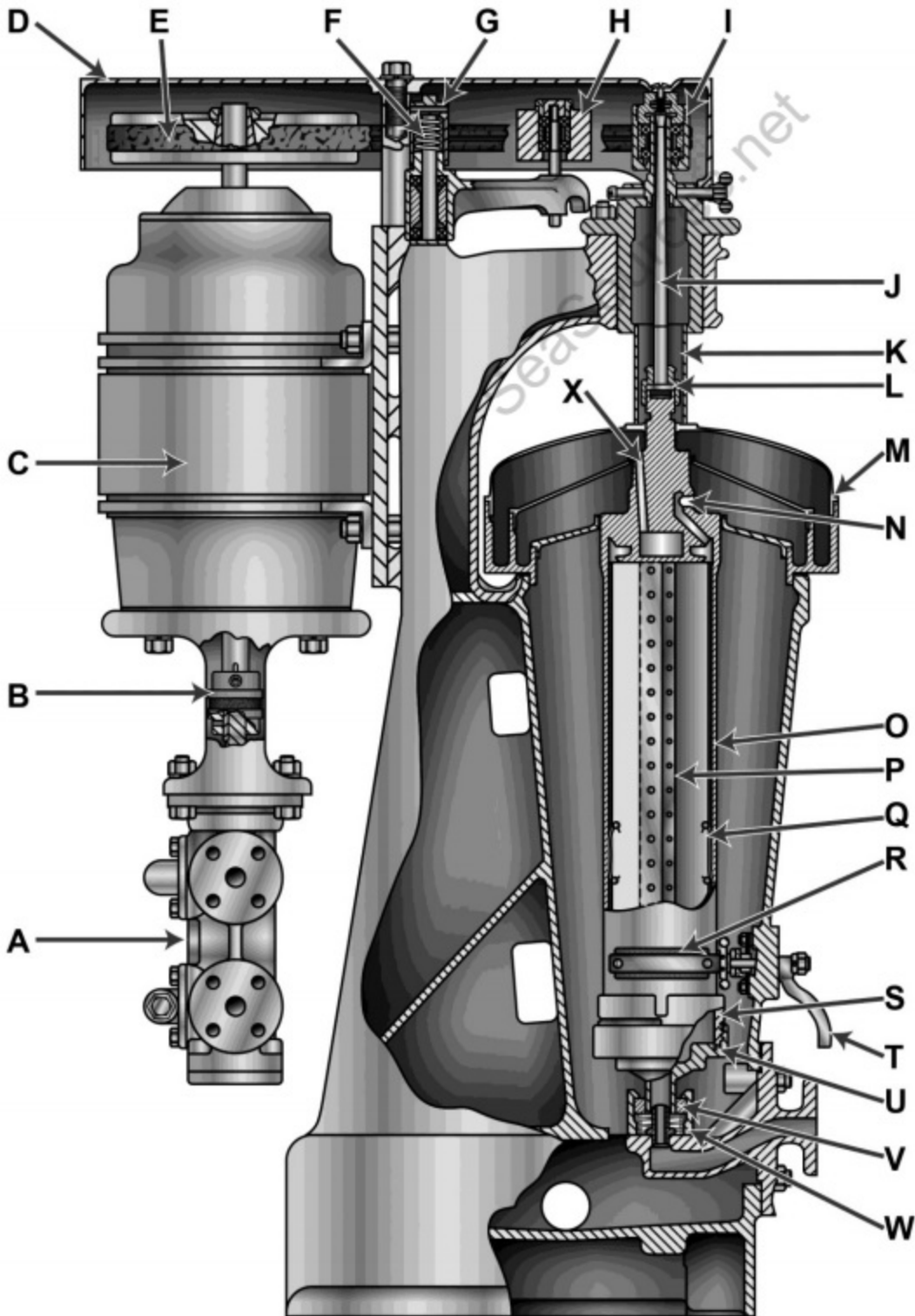


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GS-0123

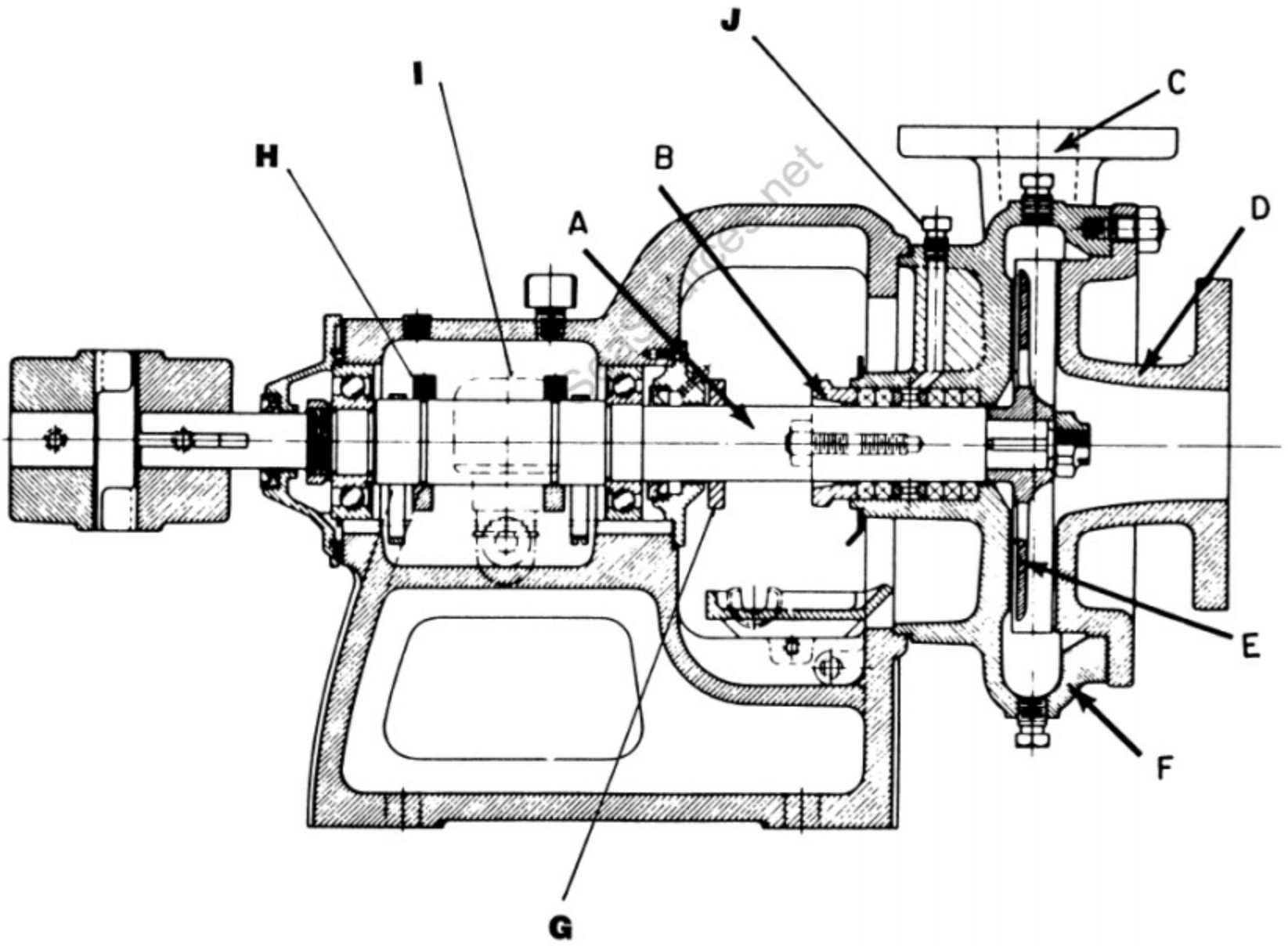


GS-0124



Three-Wing Device

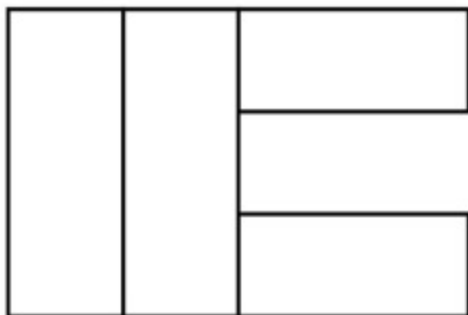




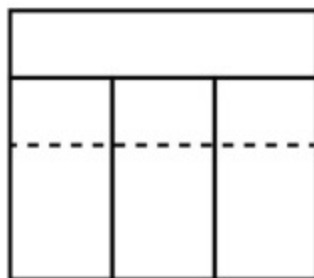
GS-0129

SeaSources.net

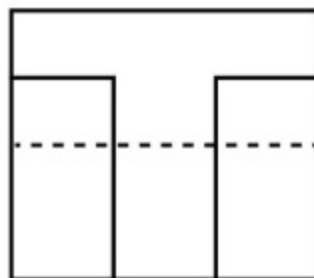
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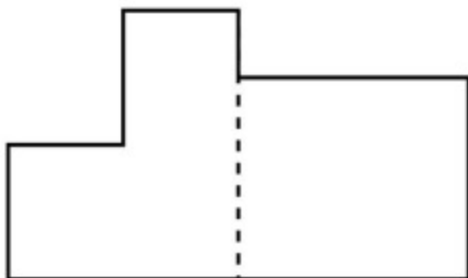
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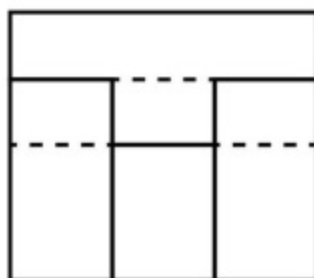
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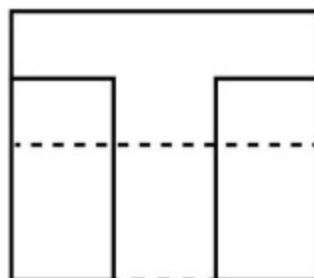
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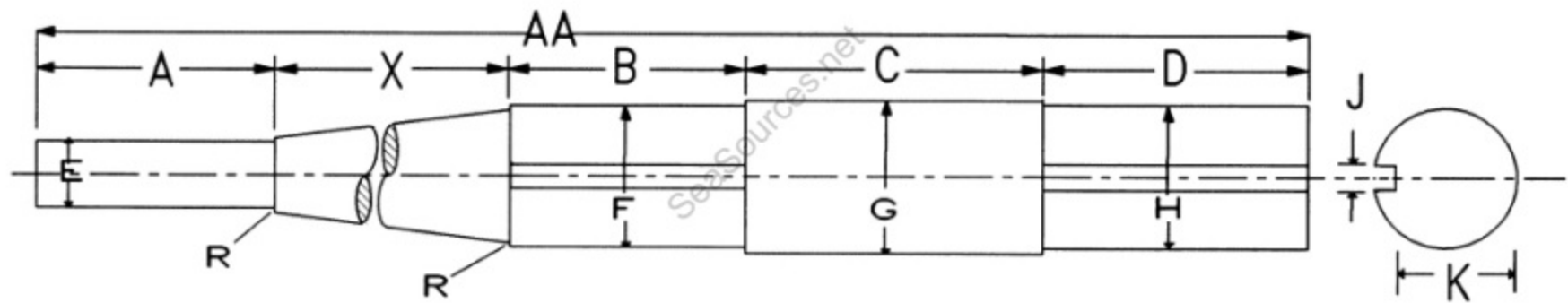


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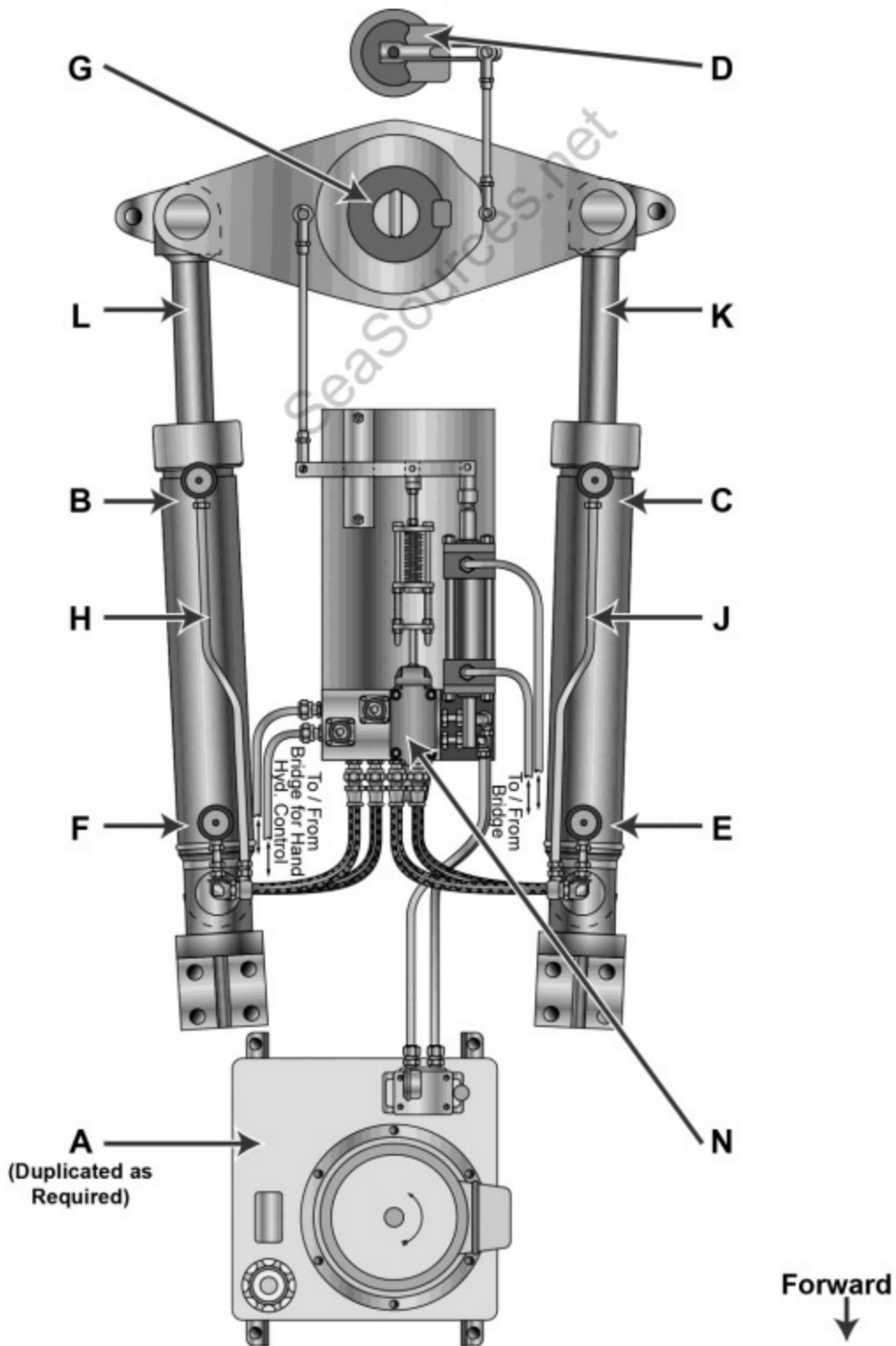
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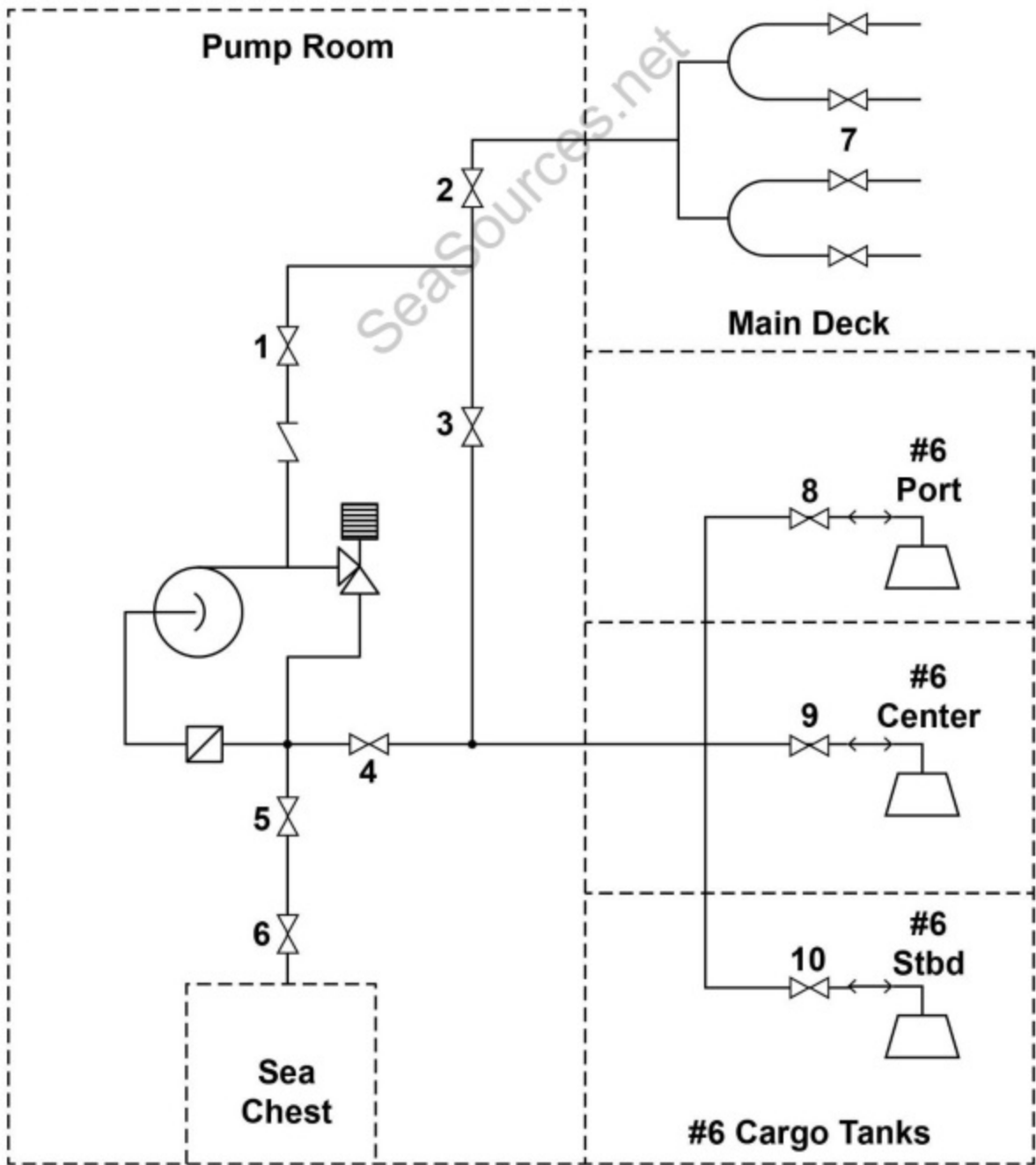


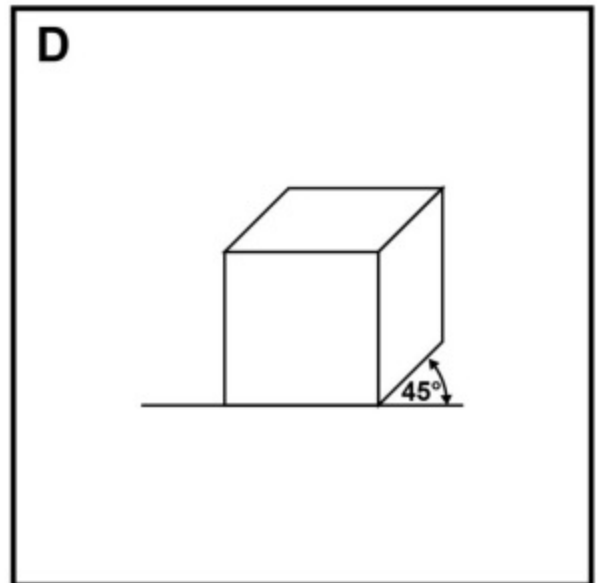
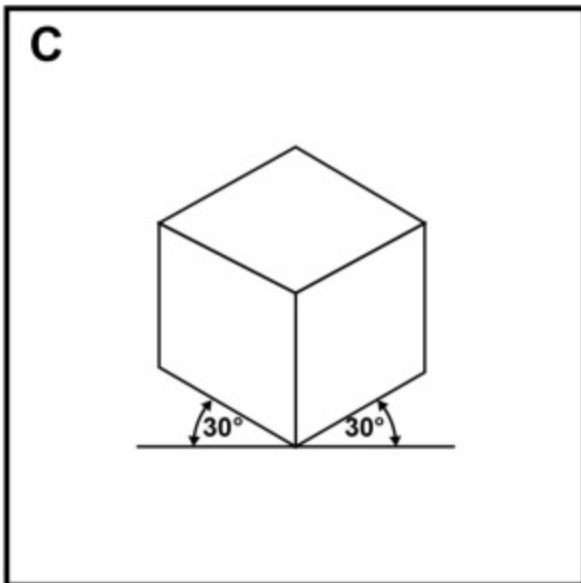
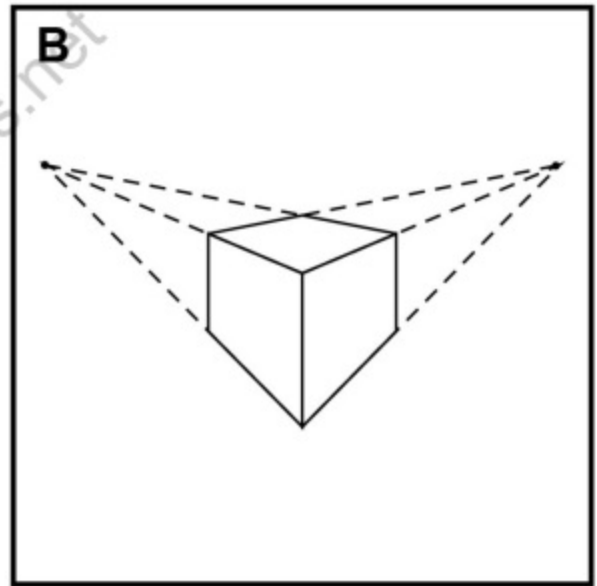
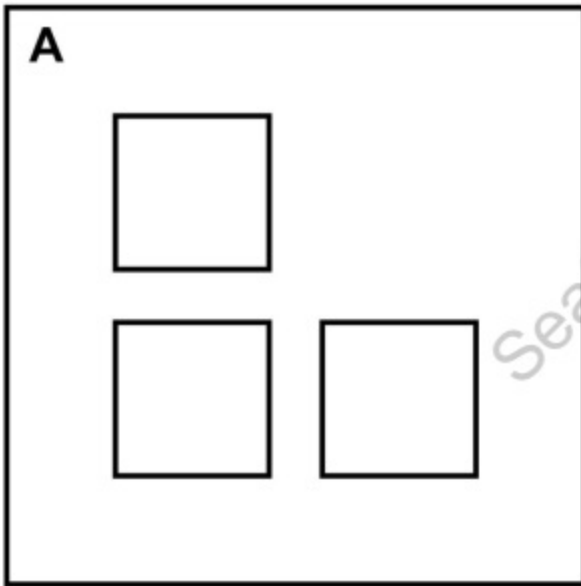
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TAPER PER FOOT

GS-0137

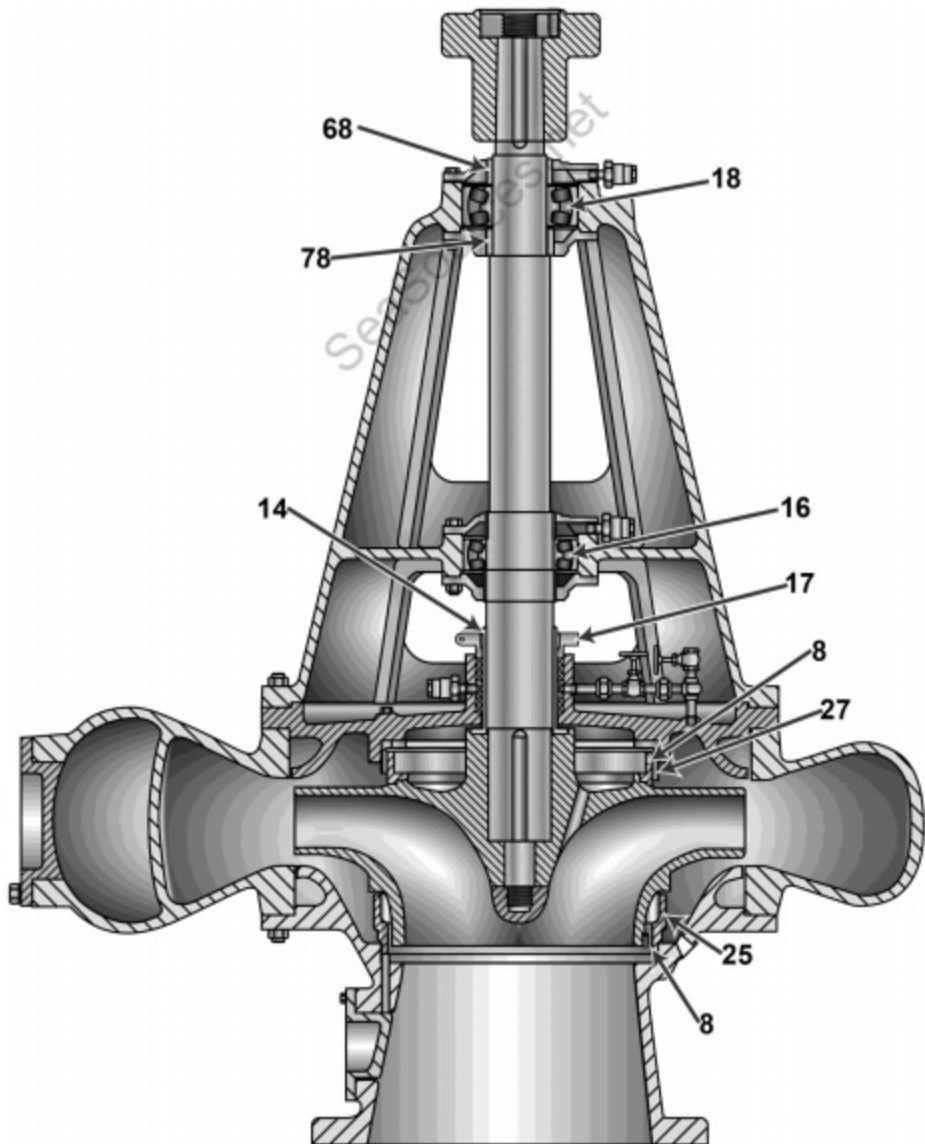


GS-0139

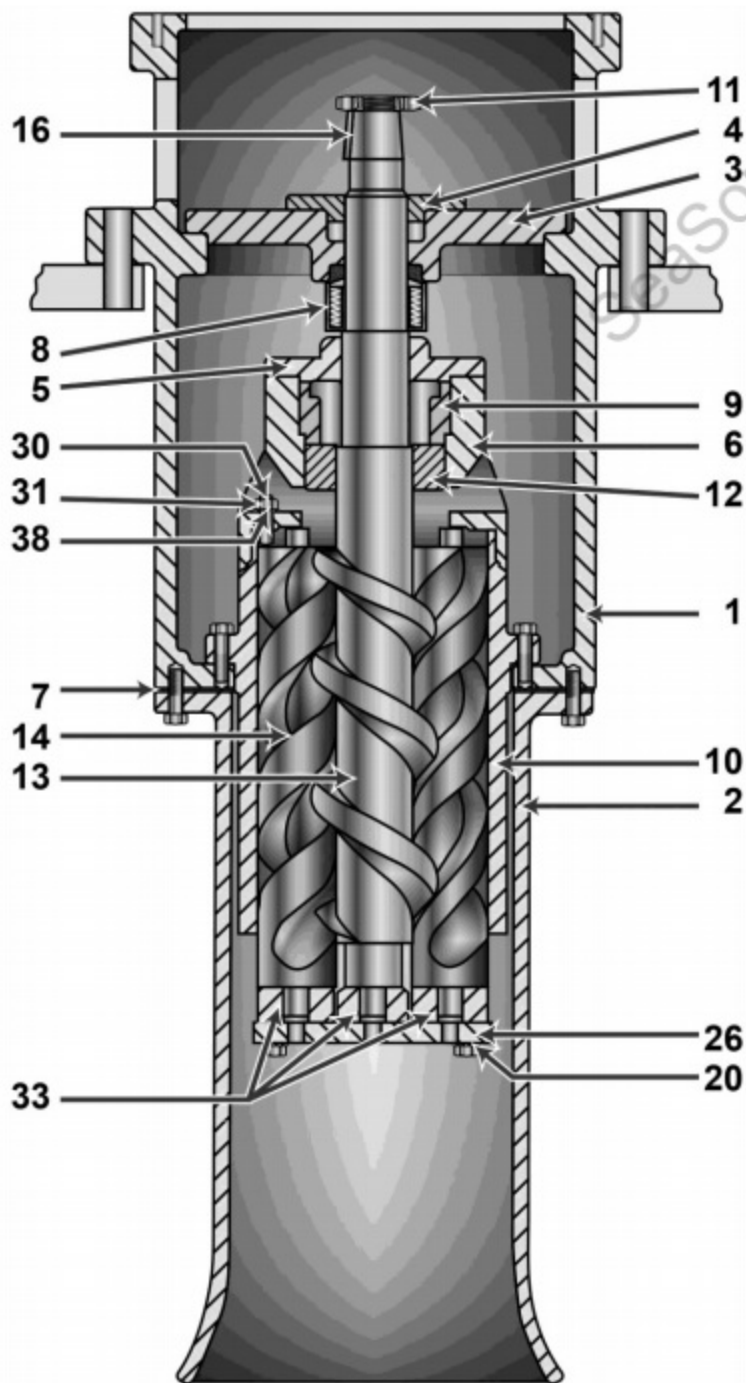




GS-0143

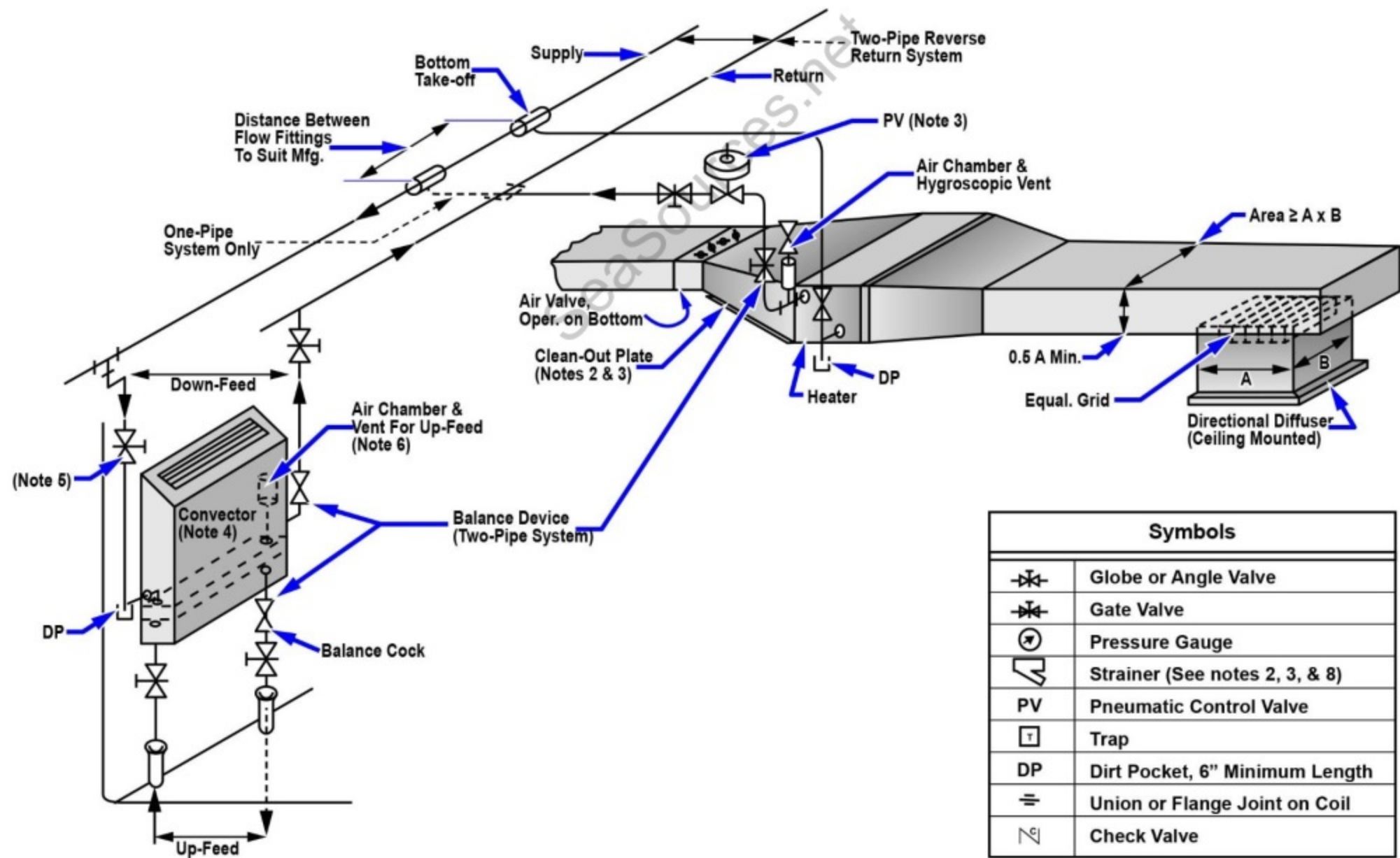


GS-0144



PC NO.	NAME	Material
1	Pump Case	Cast Steel
2	Inlet Bell	Cast Steel
3	Seal Housing	Cast Steel
4	Packing Gland	Gun Metal
5	Bearing Retainer	Bearing Bronze
6	Balance Rotor Housing	Bearing Bronze
7	Gasket	Plant Fiber
8	Mechanical Seal for 2, 3, 8" Dia. Shaft	Steel & Syn. Rubber
9	Spacer	Bearing Bronze
10	Rotor Housing	Bearing Bronze
11	Check Nut	Steel
12	Balance Piston	Steel
13	Power Rotor	Steel
14	Idler Rotor	Steel
15	Socket Head Set Screw 1/4 - 20 x 7/16" long	Steel
16	Key	Steel
17	Bolt 3/8" - 16 x 1" long	Steel
18	Bolt 3/8" - 16 x 1 1/4" long	Steel
19	External Tooth Lockwasher	Steel
20	External Tooth Lockwasher	Steel
21	Bolt 1/4" - 13 x 1 1/4" Long	Steel
22	Socket Head Pipe Plug - 1/8" Size	Brass
23	Inlet Bell	Cast Steel
24	Bolt 1/2" - 13 x 1 1/2" Long	Steel
25	Spacer	Steel Pipe
26	Thrust Plate	Steel
27	Gasket	Plant Fiber
28	Oil Balance Tube	Steel
29	O Ring	Syn. Rubber
30	Stud 5/8" - 11" x 3 1/4" Long	Steel
31	Nut 5/8" - 11" THDS.	Steel
32	Bolt 1/2" - 13 x 4 1/2" Long	Steel
33	Thrust Shoe	Bearing Bronze
34	Lacing Wire 1/16" Dia. x 16 ft. Lg. (Cut to Suit)	Monel
35	Pkg. Ring for 2 3/8" Dia. Shaft 1/4" SQ	Symbol 430
36	Bolt 3/8" - 16" x 1 3/4" Long	Steel
37	Stud 3/4" - 10 x 3" Long	Steel
38	External Tooth Lockwasher	Steel
39	Spring Pin 3/32" x 3/8" Long	Steel
40	Name Plate (Serial)	Brass Sheet
41	Name Plate (Caution)	Brass Sheet
42	Name Plate (Rotation)	Brass Sheet

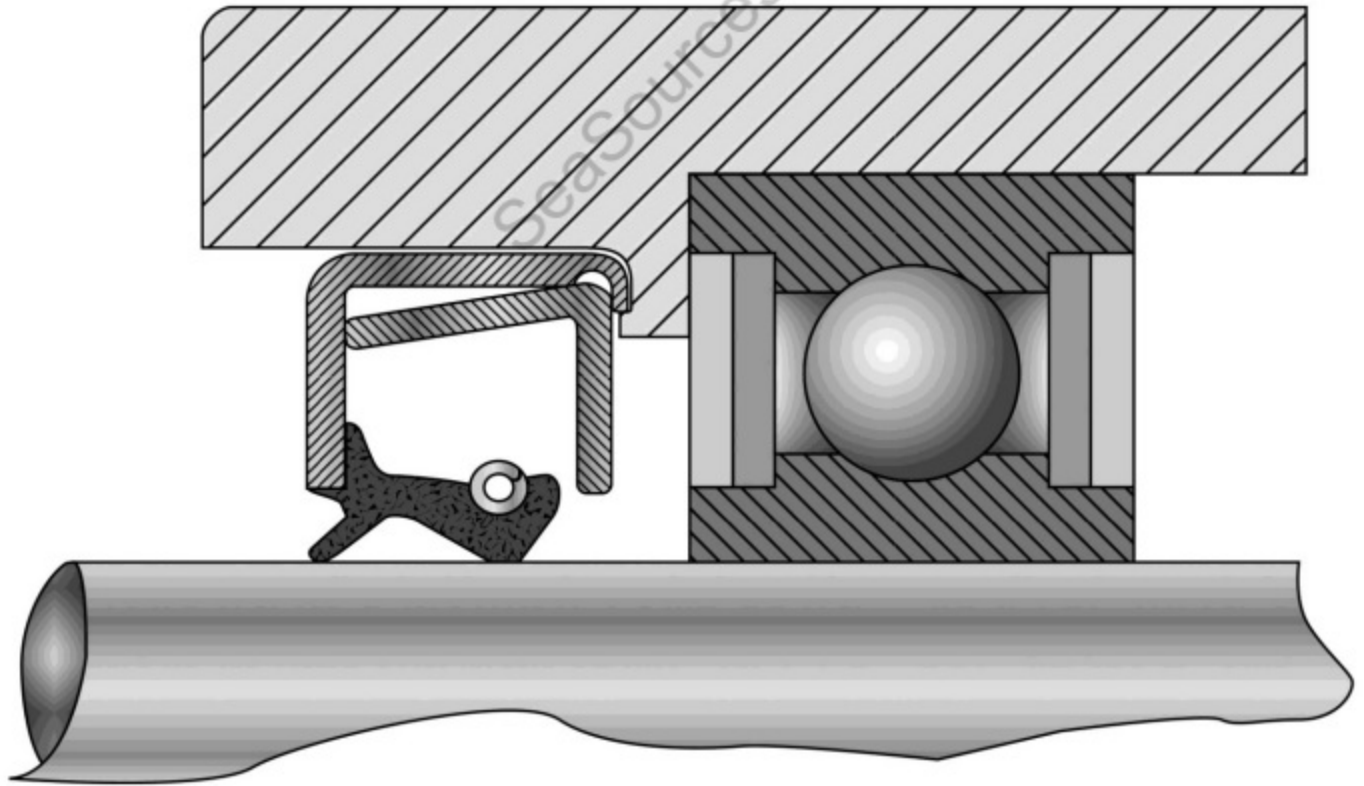
GS-0151



Notes

1. Mount convector on exposed (cold) bulkhead or bulkhead lining with 0.5" air space.
2. Clean-out plates should be 24" x 24" if possible.
3. Provide 24" x 24" hinged panel in joiner ceiling. Locate for easy access to air vent, valves, and clean-out.
4. The convector hook-up also applies to fin pipe elements.
5. Locate the shut-off valve for down-feed convectors approximately 6' above the deck.
6. The air vent must be operable through a side or discharge grille.

GS-0152

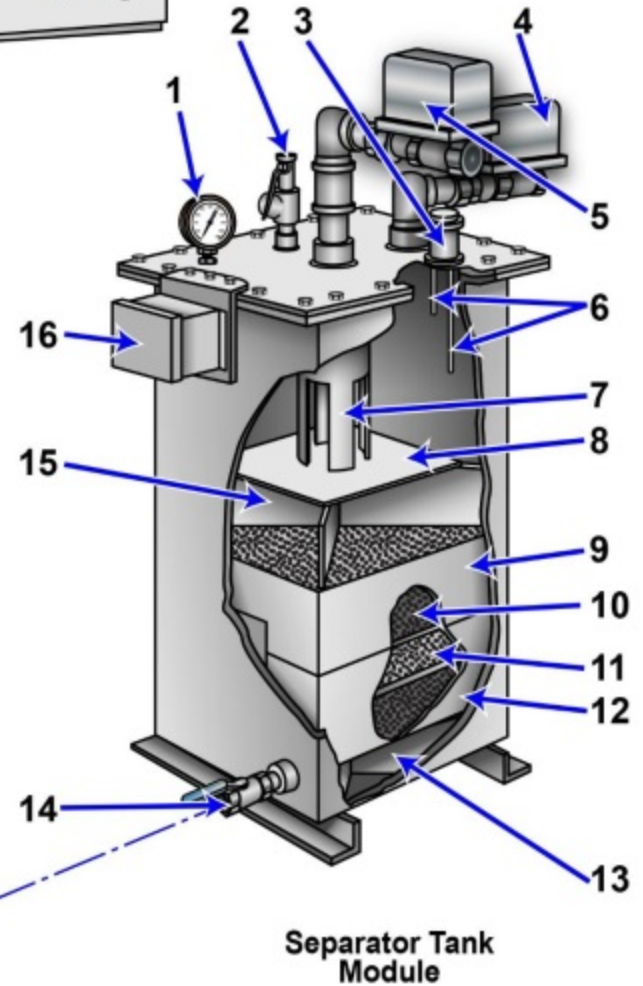
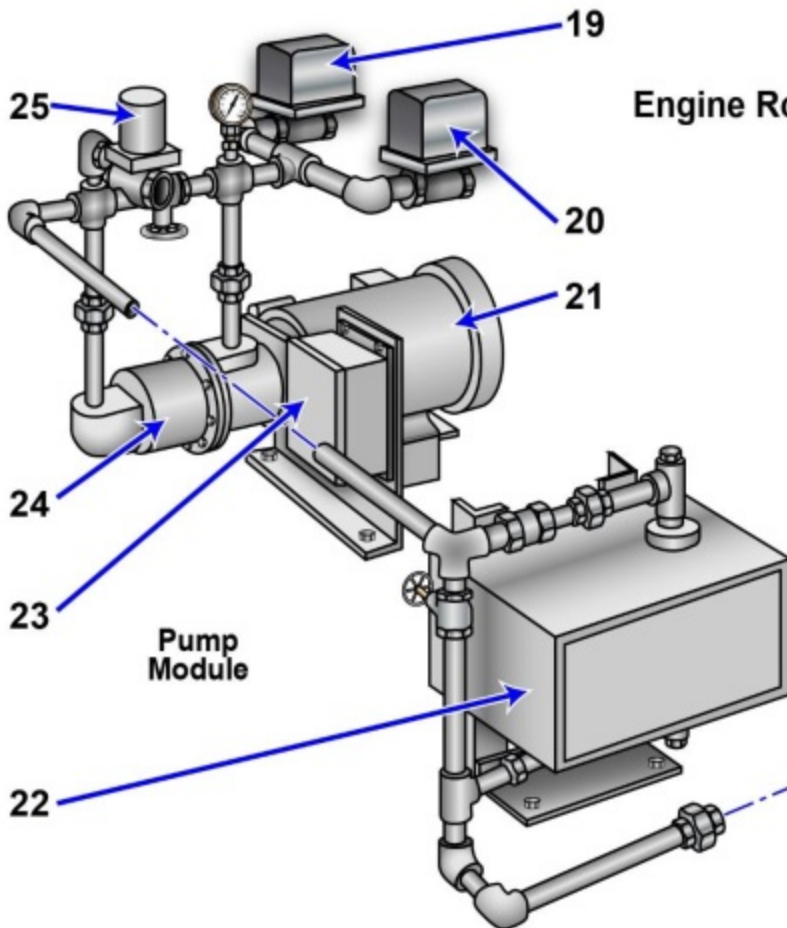


GS-0153

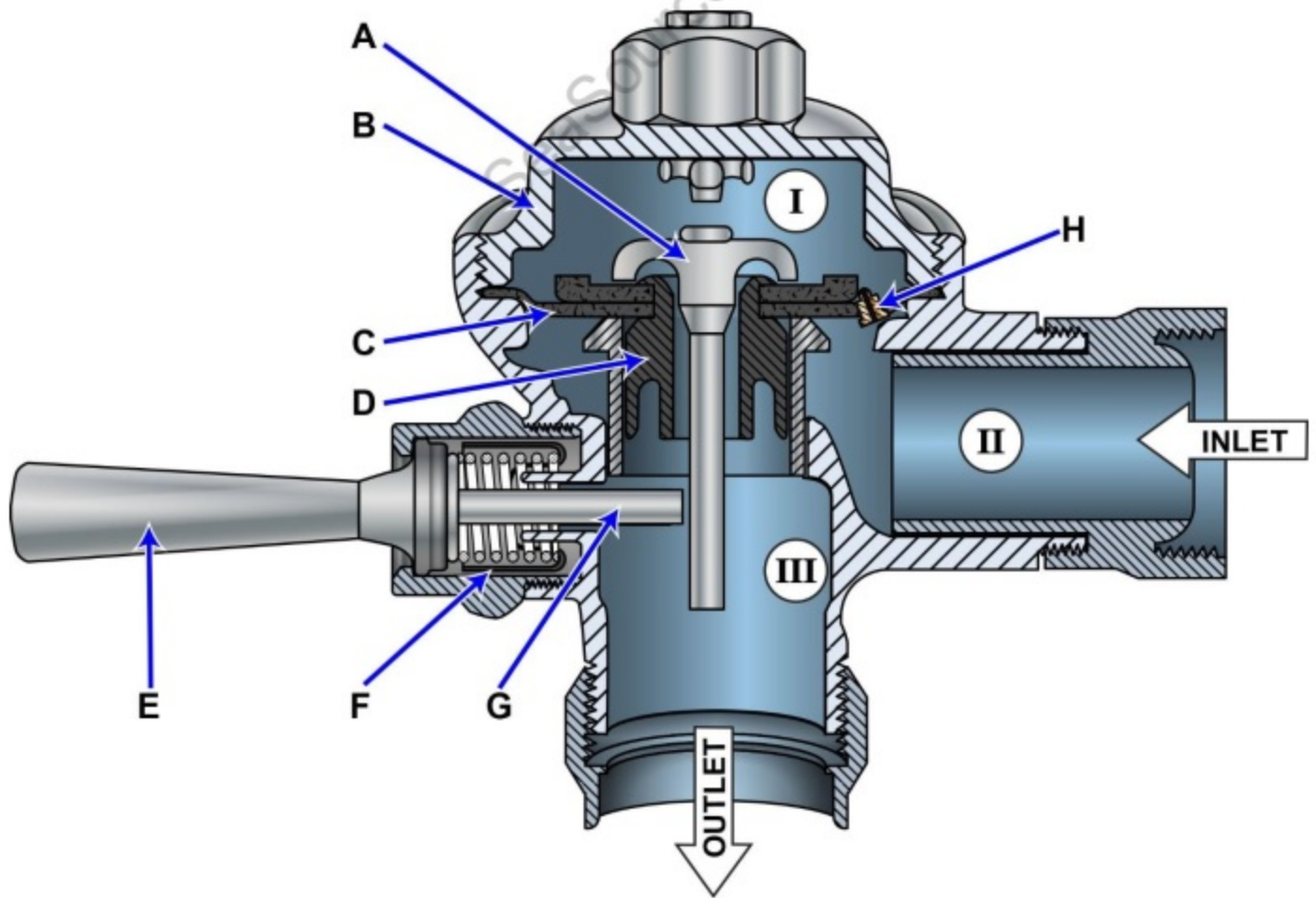
Control Room



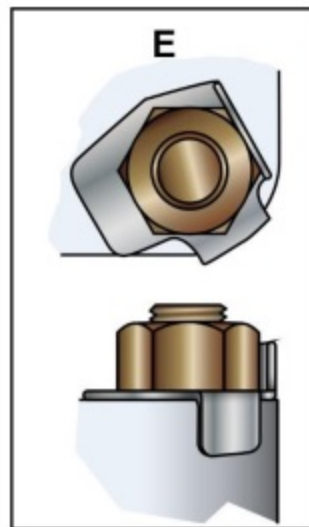
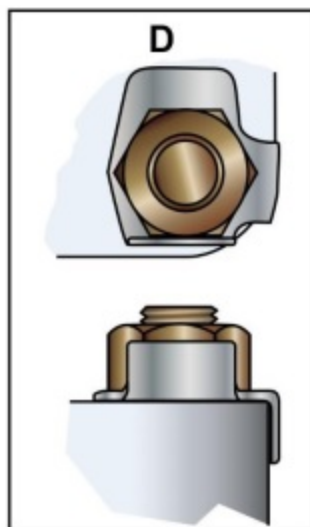
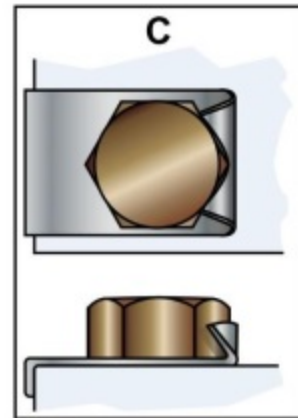
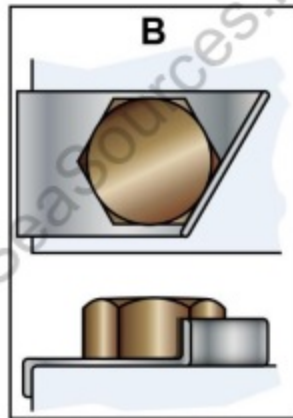
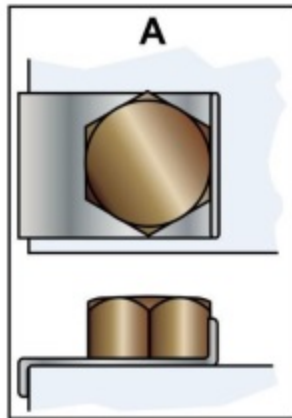
Engine Room



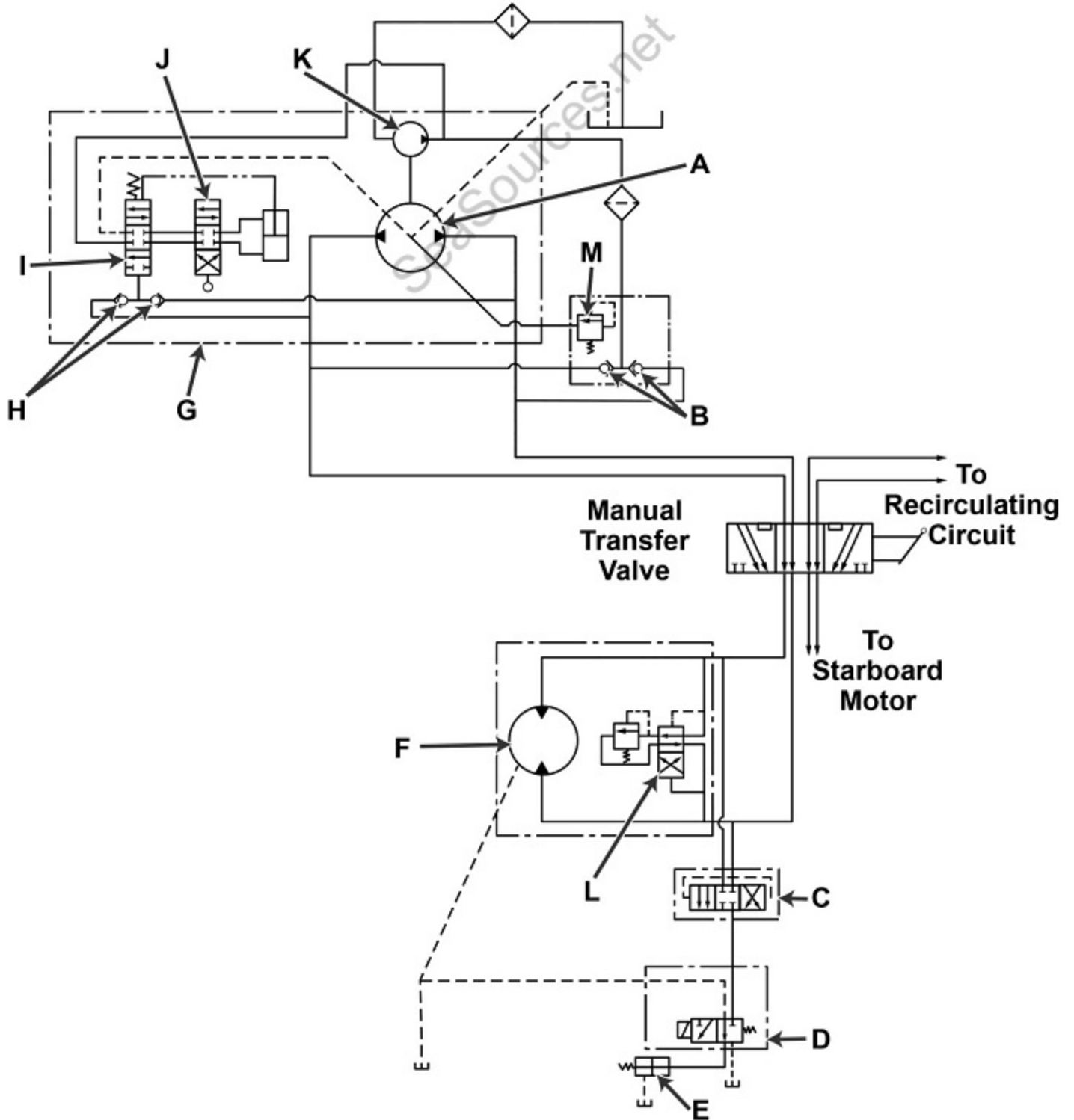
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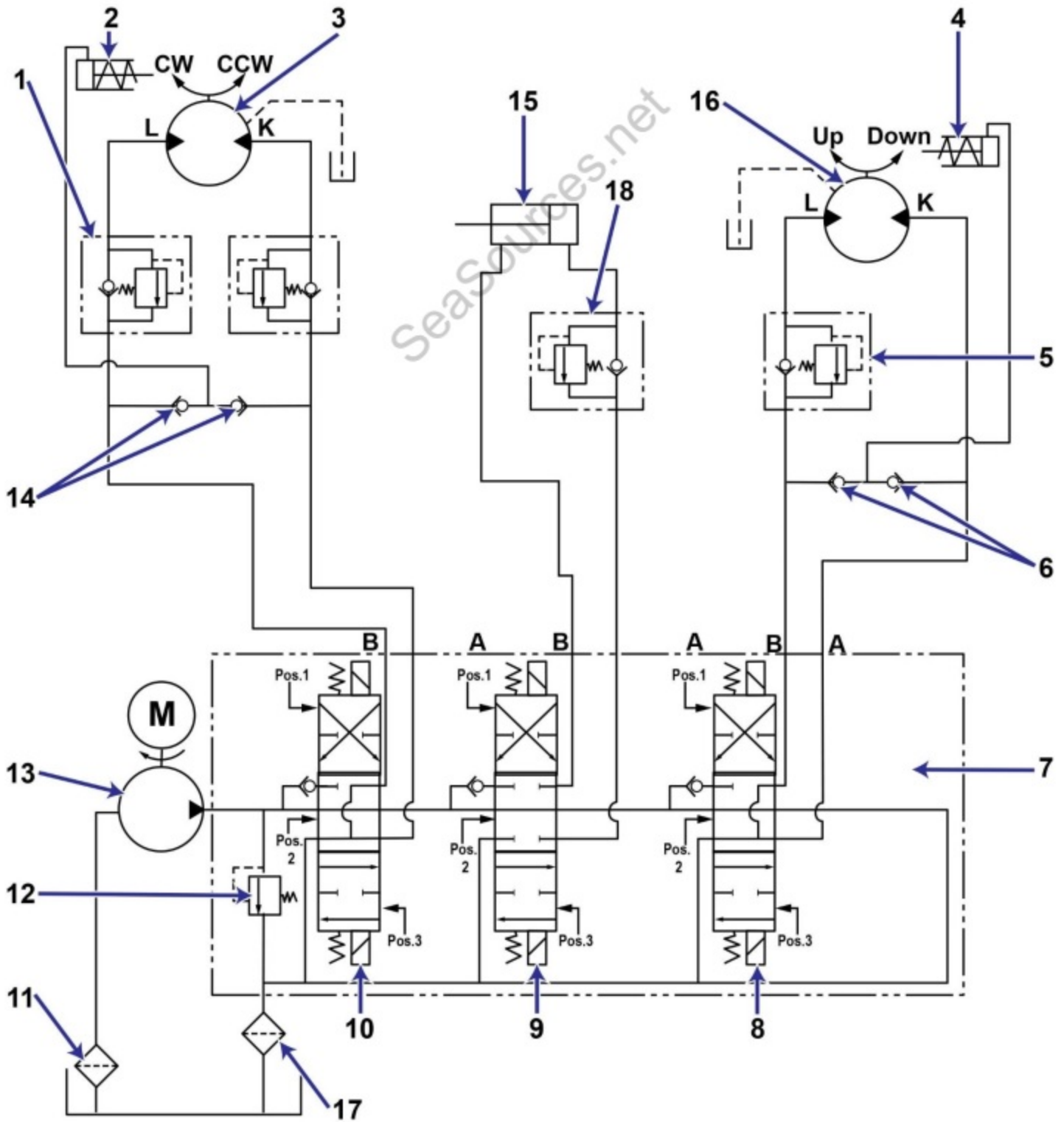
GS-0156



GS-0160

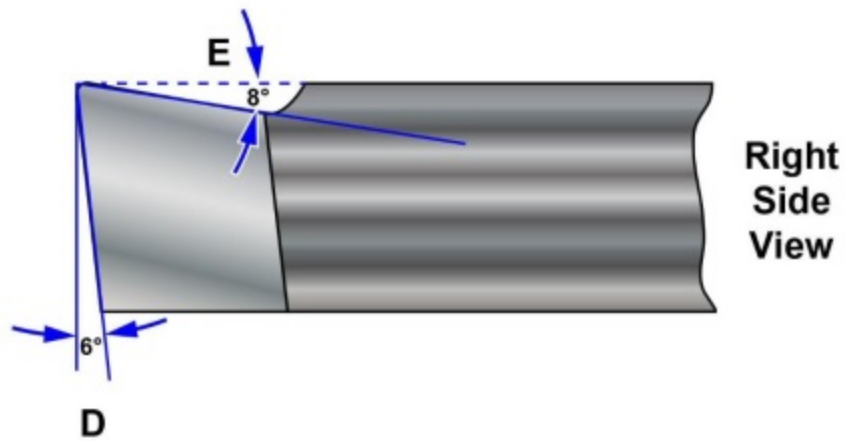
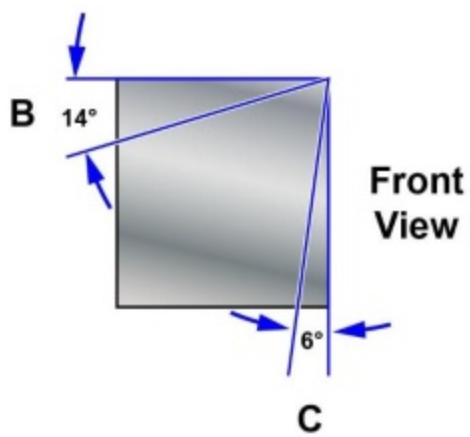
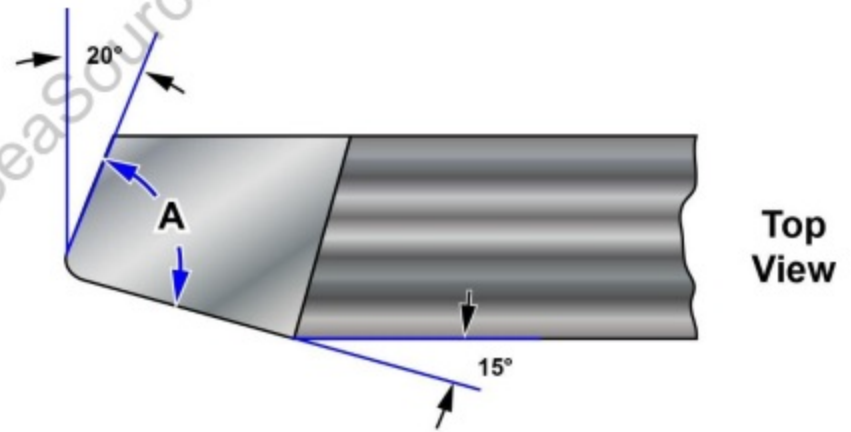


GS-0161

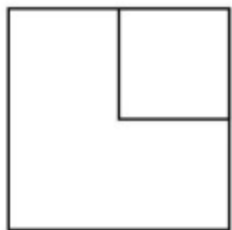


GS-0164

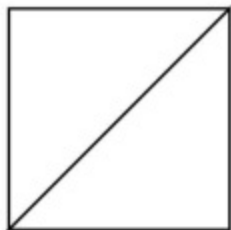
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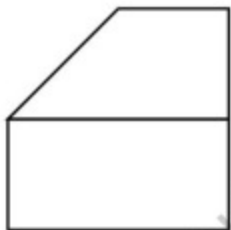
GS-0165



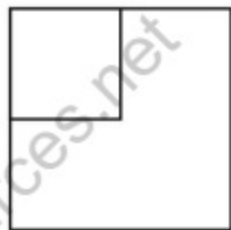
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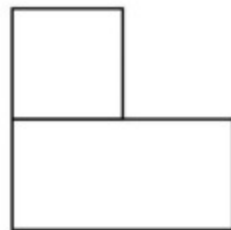
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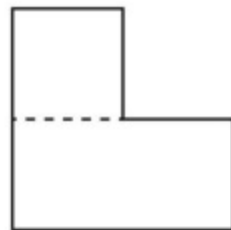
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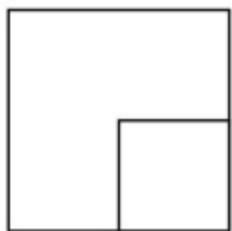
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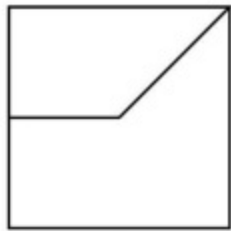
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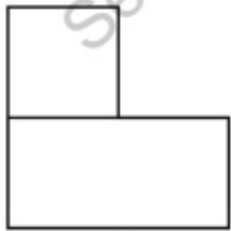
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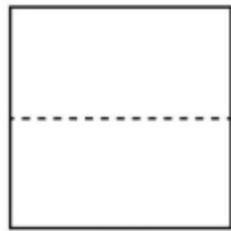
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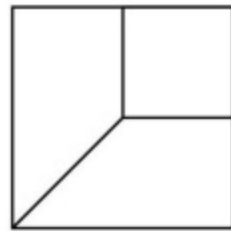
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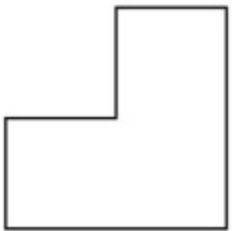
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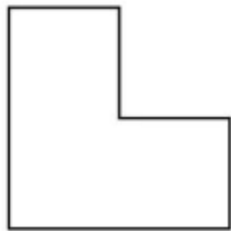
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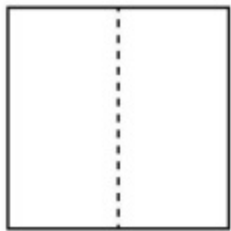
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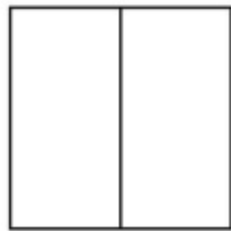
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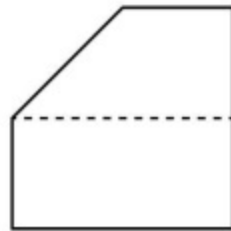
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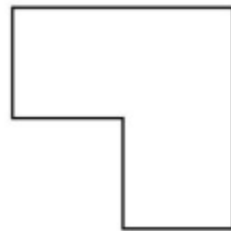
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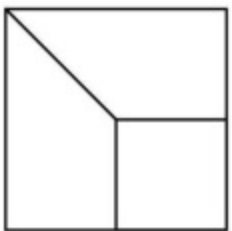
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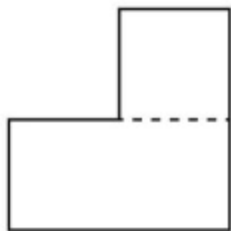
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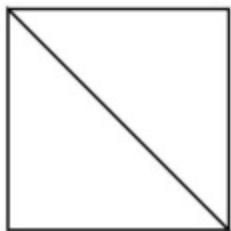
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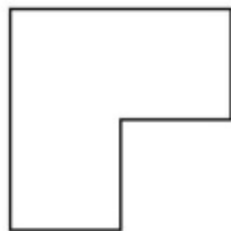
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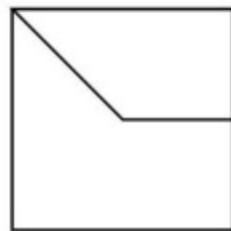
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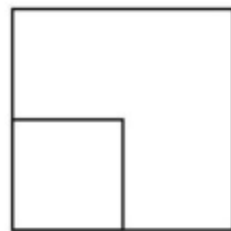
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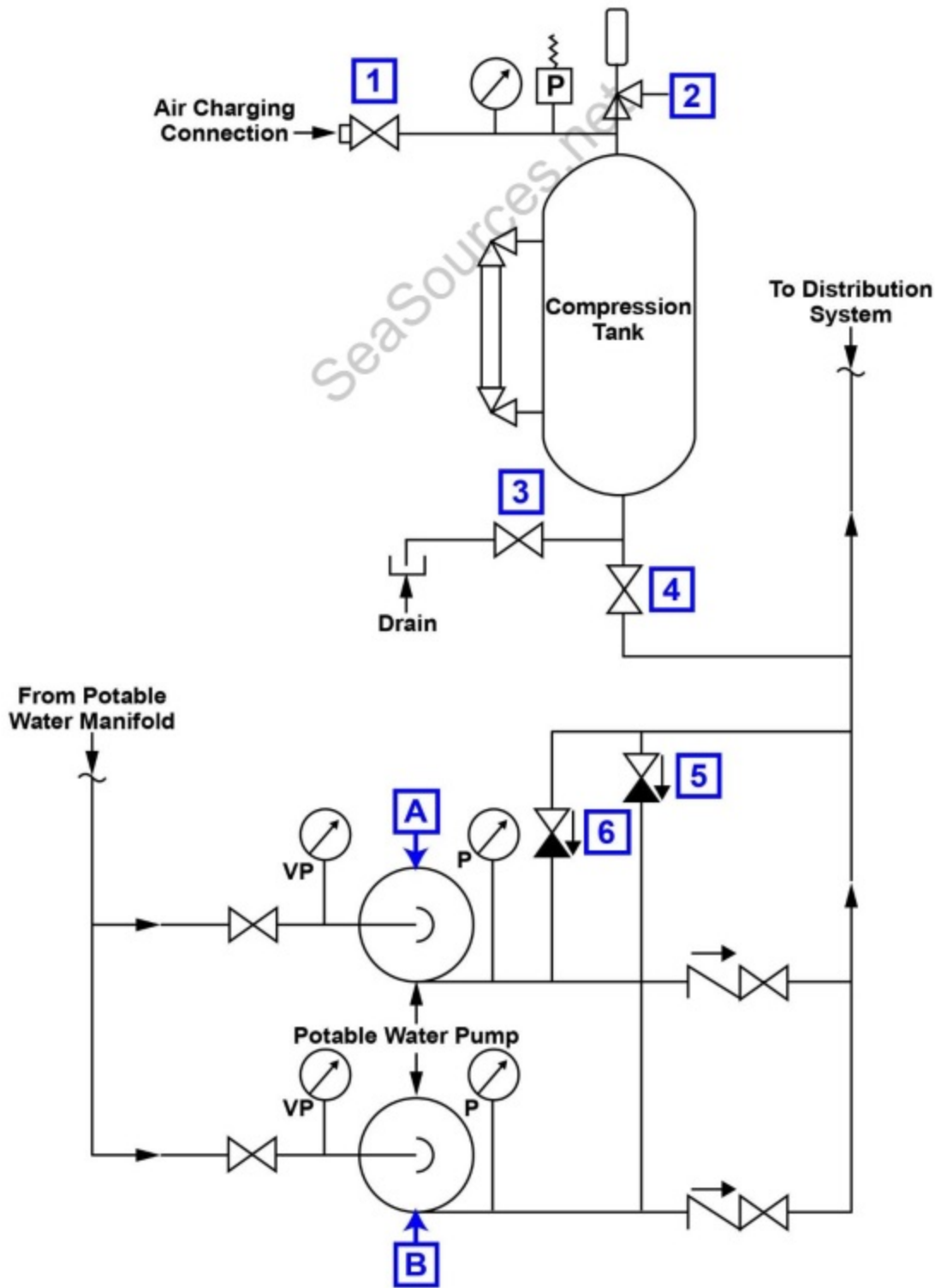


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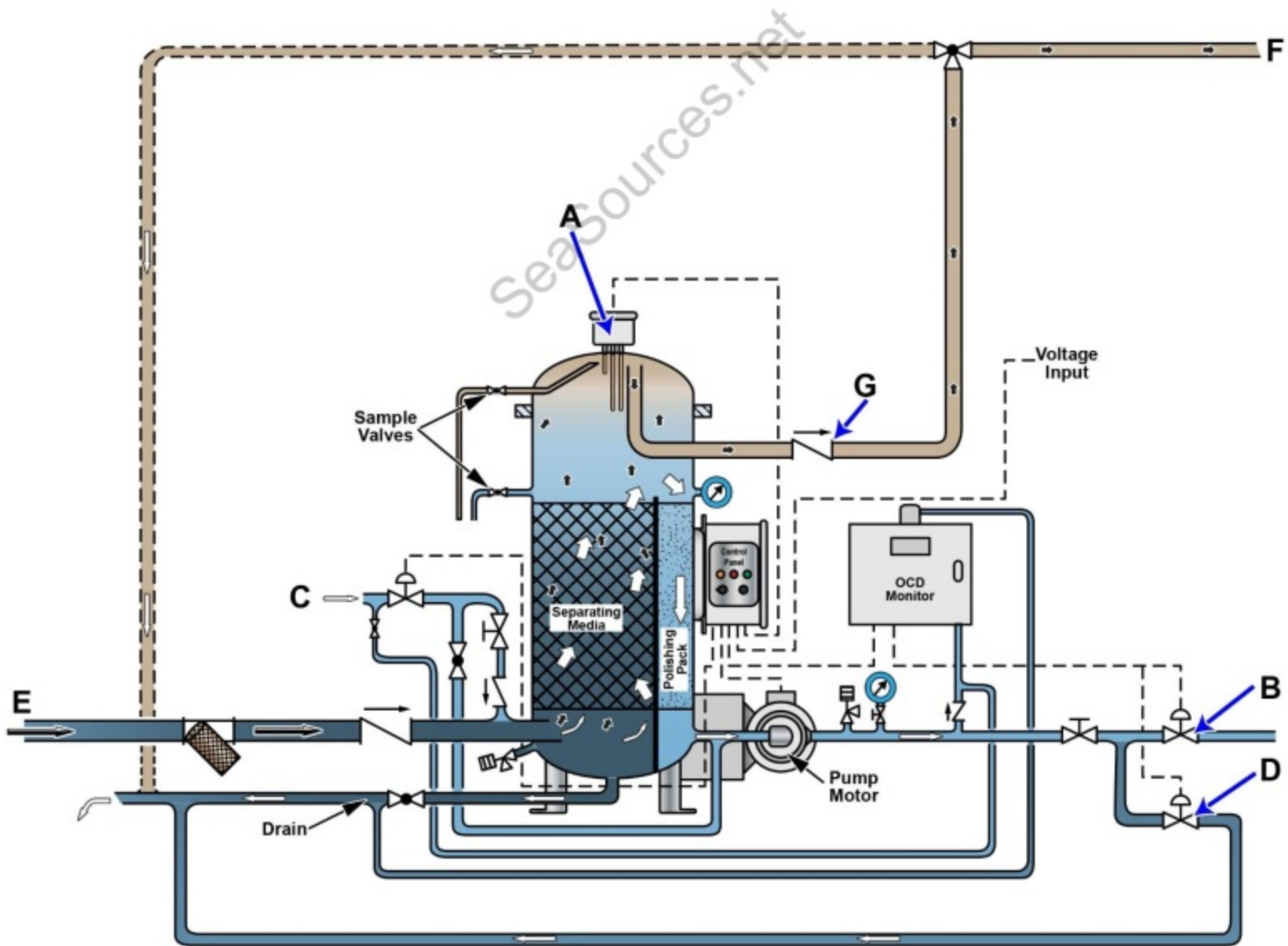


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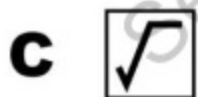
GS-0173



GS-0175



GS-0180



GS-0187

