

Chief Fluid Systems x JA Moody:

Introducing Chief Fluid Systems' newest product line as the Australian Agent and Distributor for JA Moody Naval and Marine valves, actuators, and related products.



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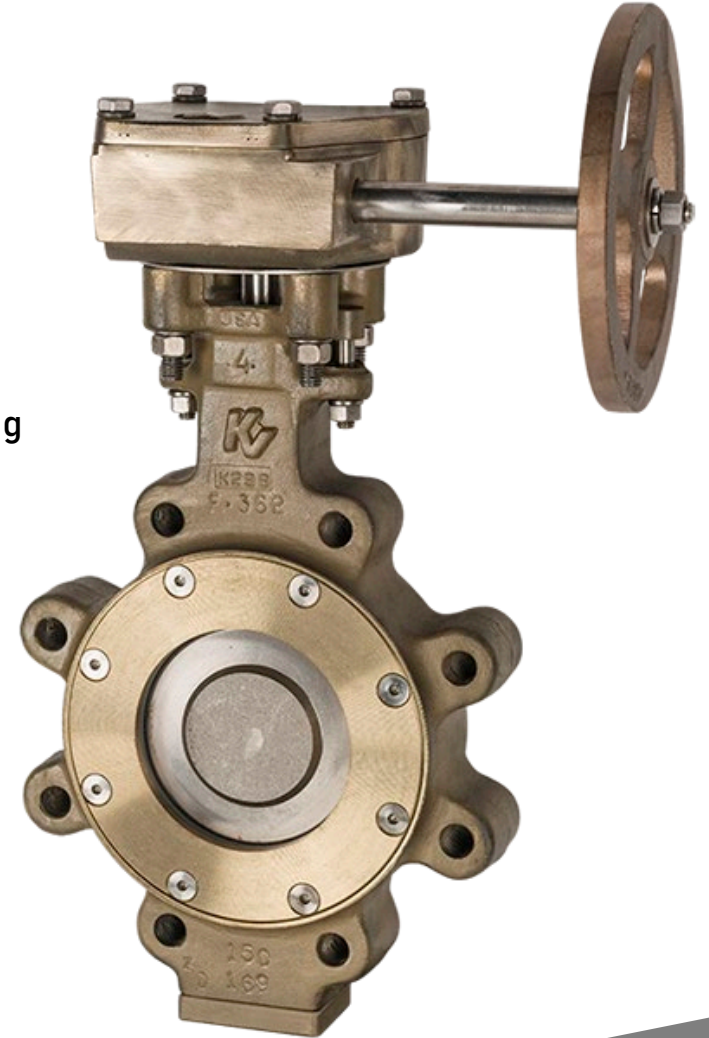


Lexair Inc.

HIGH-PERFORMANCE NAVY K-LOK BUTTERFLY VALVES MIL-V-24624 [↗](#)

The (MIL-V-24624) Butterfly Valves' design provides bidirectional, drop-tight closure for navy applications. It features a unique two-piece stem and double-offset disc that offers high cycling and increased capacity.

Sizes	2 ½" – 14"
Pressure ratings	275 psi
Standards	Type (1 & 2)- ANSI B16.5 Type (3 & 4)- NAVSEA DWG 810-1385892
Weight	150 lb
Style	Wafer (Figure 360) or Lugged (Figure 362)
Body Style	Type (1 & 2)- ASTM A351 CF8M Type (3 & 4)- MIL-B-24480 CDA958
Disc	Type (1 & 2)- ASTM CF8M/ENP Type (3 & 4) Monel- ASTM B164 M35, A, B, or E
Stem/Taper Pins	Type (1 & 2)- ASTM A564 H1075 Type (3 & 4)- ASTM A164 QQN-288
Seat	Type (1 & 2)- W/RTFE Type (3 & 4)- CR. Plated
Bushing	Type (1 & 2)- RTFE/Fiberglass Epoxy Stainless Steel Nitrided Type (3 & 4)- RTFE/Fiberglass Epoxy Bronze



Lexair Inc.

FIRE-SAFE VENT VALVES

The Keystone fire-safe vent valve is specifically designed for use as airtight and watertight closures. A major advantage of this vent valve over any ordinary valve is that it is fire safe, meaning that in the event of a fire or a high-temperature flow it remains structurally sound thanks to the application of an intumescent ring around the inside of the valve.

Size Range	641- 2 1/2" - 36"; R 2.5 - R36 661- 7" x 3" - 30" x 20", K31 - K41
Pressure ratings	15 psi working, 30 psi test
Design	316 stainless steel body and disc, Inconel upper stem, 17-4 lower stem, silicone/intumescent seat.
BUSHIP Drawing	#804-1749102/1749103 Rev. C.



Lexair Inc.

ALUMINIUM NAVY VENT VALVES

The Keystone aluminum Navy vent valves' lightweight design is ideal for use on naval crafts to ensure airtight and watertight closures. MIL-S-901 Shock Test Compliant & MIL-STD-167-1 Vibration Test Compliant. Full reliability to keep vessels at sea.

Size Range	640 - 2 1/2" - 30"; R 2.5 - R30 660 - 7" x 3" - 30" x 20", K31 - K41
Pressure ratings	15 psi working, 30 psi test
Design	Aluminum body and disc, 18-8 stainless steel stem, neoprene seat.
BUSHIP Drawing	#805-1749102/1749103 Rev. B.

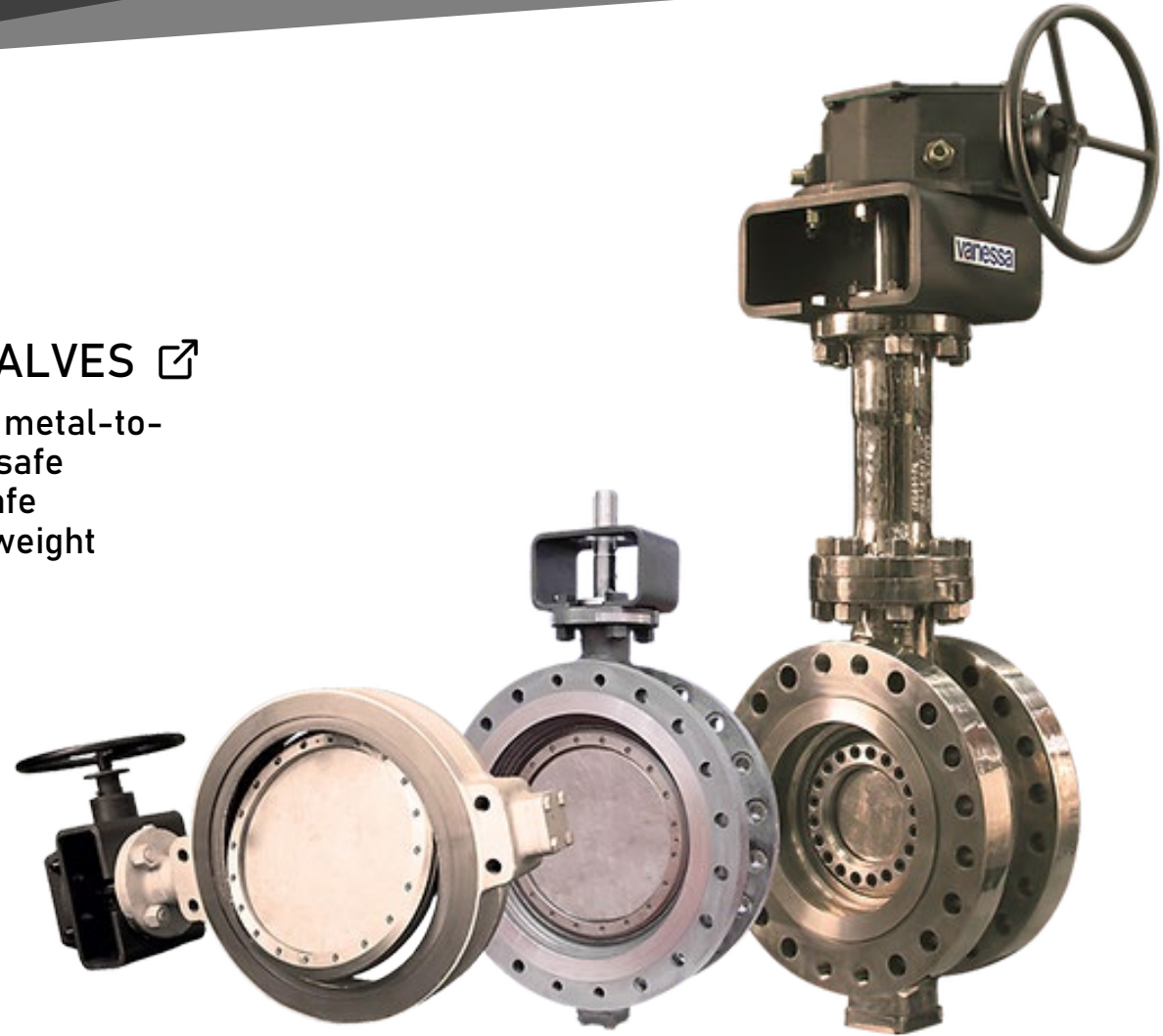


Emerson Valves

VANESSA SERIES 30,000 TRIPLE OFFSET VALVES [↗](#)

The Vanessa 30,000 is an all-metal valve complete with metal-to-metal sealing elements. It is considered inherently fire-safe because its performance does not change during fire-safe simulation tests. Vanessa provides valuable space and weight saving over traditional gate valves and ball valves.

Sizes	DN 80 – 3000 (NPS 3 – 120)
Pressure ratings	ASME class 150 – 1500; EN PN 10 – 250
Temperature range	(-60 °C to 450 °C) (-76 °F to +842 °F)
Design Standards	API 609, EN 593; ASME B16.34, EN 12516
Flange Standards	ASME B16.5/ASME B16.47; EN 1092-1; ISO 7005
Face to Face Standards	ISO 5752; EN 558; ASME B16.10; API 609



Tyco

VANESSA QTG VALVE [↗](#)

The Vanessa Series 30,000 US Navy configuration features a double-flanged body style. It is designed to be dimensionally the same as a MIL-V-1189 gate valve which allows for easy installation into a pipeline without any pipe modifications. The QTG designed triple offset torque seated design reduces the weight, in comparison with a gate valve, along with having the advantage when actuated to reduce the size and weight. This allows for a part actuator to be used which reduces the speed of open and closure times.

Sizes	3" - 12"
Pressure ratings	150-275 psi
Type I	Non- ferrous, metal seated
Pressure Tempature	ASME B16.34
Body	Double Flanged
Face to face	MIL-V-1189D-803-2177917



Norriseal

SERIES M200 & R200 BUTTERFLY VALVES [↗](#)

Norriseal Series 200 butterfly valves provide bi-directional, positive shutoff to 200 psi working pressure. They are available in both resilient-seated (Series R200) and metallined (Series M200) configurations. All Series 200 butterfly valves feature a unique angle disc that creates a 360° uninterrupted differential sealing surface.

Series 200 butterfly valves have independent flange seals and a non-wetted body that may be specified with either lug or wafer design. All Series 200 butterfly valves are easily repaired in the field.

Sizes	2" to 36"
Pressure ratings	200 psi
Temperature range	-20 °F to 250 °F
Body	Cast iron, Ductile iron, Nickel aluminium bronze
Disc	Ductile iron, Carbon Steel (WCB), Valve Bronze, Aluminium bronze, Aluminium Alloy
Seat	NBR, EPDM, Fluoroelastomer (Viton)



Norriseal

SERIES M285 & R285 BUTTERFLY VALVES

Series 285 butterfly valves provide bi-directional, positive shutoff to ANSI 150 standards (285 psi). They feature an exclusive angle disc with a 360° uninterrupted differential sealing surface.

Series 285 butterfly valves offer outstanding flow efficiency, with a rigid-drive, precision disc-to- shaft connection that eliminates load-bearing fasteners in the flowstream. Double-shaft seals and shaft bushings assure smooth, low torque operation.

Sizes	3" to 36"
Pressure ratings	200 psi
Temperature range	-40 °F to 250 °F
Body	Cast iron, Ductile iron, Nickel aluminium bronze
Disc	Ductile iron, Carbon Steel (WCB), Nickel Aluminum bronze
Seat	NBR, EPDM, Fluoroelastomer (Viton)

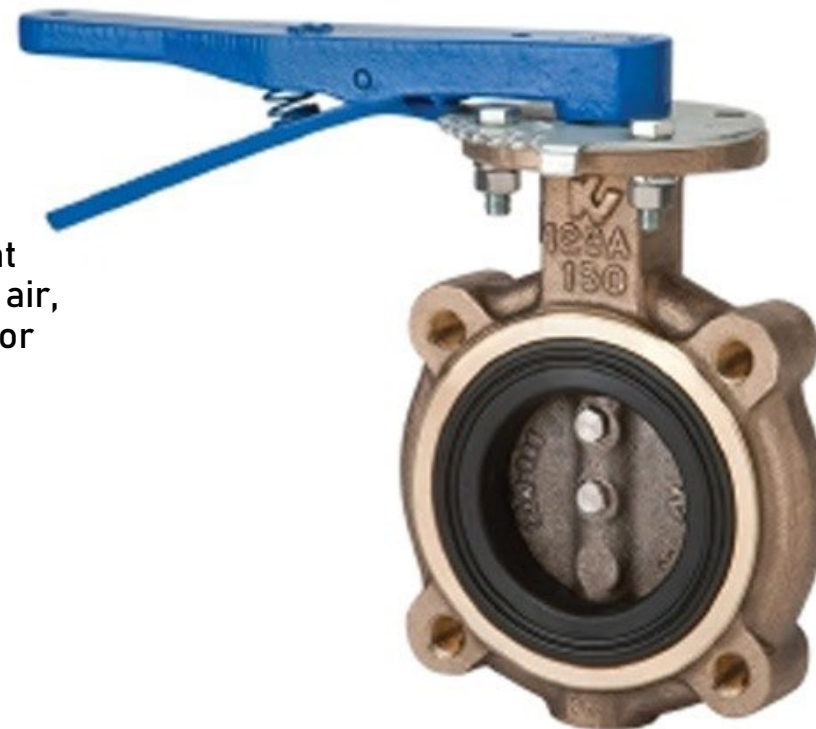


Keystone

BUTTERFLY VALVE FIGURES 129 & 139 [↗](#)

Figure 129 and Figure 139 are heavy-duty, resilient-seated butterfly valves that are ideally suited for many industrial high-performance applications, such as air, water, and vacuum service. In addition, Figures 129 and 139 can also be used for marine and naval use where MIL-V-22133C specified valves are required.

Sizes	2-20 inch
Pressure ratings	200 psi
Temperature range	-40 °F to 250 °F
Standards	API 609, ASME B16.34
Body	Cast iron, Ductile iron, Nickel aluminium bronze
Disc	Ductile iron, Aluminum bronze, 316 Stainless Steel, Monel®
Seat	NBR, EPDM





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Kunkle

SERIES 20 VALVE [↗](#)

Applications include non-code liquid relief, overpressure relief and protection of pumps, tanks, lines, and hydraulic systems, pressure regulation, and continuous bypass relief.

Both inlet and outlet connections are cast integral with body to permit easy inspection and servicing without disconnecting piping. Each Kunkle valve is tested and inspected for pressure setting and leakage.

Pressure ratings per model	19, 20 (1 to 300 psi) 19M, 20M (1 to 500 psi) 200A, 200H (1 to 200 psi) 20-D (Variation 05 to 150 psi) (Variation 06: 100 to 300 psi)
Temperature range per model	19, 20 (-60°F to 406°F) 19M, 20M (-60°F to 406°F) 200A, 200H (-60°F to 406°F)



Kunkle

KUNKLE SERIES 900 VALVE [↗](#)

Applications include air/gas compressors, intercoolers, aftercoolers, liquid filled pressure vessels/systems, vacuum systems including pumps, tanks, and equipment, pressure vessels containing gas, air, liquid, or steam, including tanks and receivers, oil/gas separators, overpressure relief and protection of pumps, tanks, lines, and hydraulic systems, process and industrial corrosive applications, bypass relief, and pressure regulation.

All SS Model 911 may be suitable for sanitary/edible applications.

Pressure and Temperature range per model	Model 910: -20°/800°F [-28.9°/427°C] Model 911: -320°/800°F [-195°/427°C] Models 916 and 917: Temperatures limited by Elastomer seat material. Models 912, 918: – Steam 3 to 250 psi [0.2 to 17.2 bar]¹ -320° to 406°F [-195° to 208°C] Models 913, 919: – Air/Gas/Liquid 3 to 1400 psi [0.2 to 96.5 bar] -320° to 425°F [-195° to 219°C] Models 913, 919: – Steam 3 to 300 psi [0.2 to 20.7 bar] -320° to 425°F [-195° to 219°C] Models 912, 918: – Air/Gas/Liquid 3 to 300 psi [0.2 to 20.7 bar] -320° to 406°F [-195° to 208°C]
Standards	ASME





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Kunkle

KUNKLE SERIES 6000 VALVE [↗](#)

O-ring seats are available for exceptional leak-free performance, reducing the cost of maintenance, multiple cycles with tight shutoff, greatly improves seating integrity.

Grooved piston model disc reduces the area for sliding and friction. Each Kunkle valve is tested and inspected for pressure setting and leakage.

Connection Sizes	1/2" - 2" ANSI Standard
Pressure/Temperature range	For models 6010, 6021, 6182, 6283, 6221 Steam Service 3 to 250 PSIG [0.2 to 17.2 bar] -60° to 406°F [-51° to 208°C] Air/Gas Service 3 to 300 PSIG [0.2 to 20.7 bar] -60° to 406°F [-51° to 208°C] For models 6030, 6130, 6230 Steam and Air/Gas Service 3 to 300 psi [0.2 to 20.7 bar] -60° to 425°F [-51° to 218°C]
Standards	NSI, ASME, PED





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Champion Valves

DUAL DISC SPRING LOADED WAFER CHECK VALVE [↗](#)

Champion Valves Inc.'s single disc wafer check valves are designed for installation in flanged piping systems in both horizontal and vertical orientations. They are compatible with applications such as gaseous compressors and blowers, water and oil pumps, and biofuels production. CVI's model SD & SDR provides uni-directional protection among a wide variety of services.

Sizes	2" - 24"
Pressure ratings	ASME class 150-900
Temperature range (seat dependent)	(-70) - 1000+
Spring Types	316 SS, Inconel X-750
End Connection	Plain/Raised Face
Body Types	Ductile Iron, Carbon Steel, 316 SS
Disc Types	304 SS, 316 SS





Champion Valves

DUAL DISC SPRING LOADED WAFER CHECK VALVE [↗](#)

This Dual Disc Spring Loaded Wafer Check Valve makes piping simple. It requires less man hours to operate and maintain, while the shape and composition helps lower installation costs and further optimizes space utilization. This valve further reduces thermal and seismic considerations while preventing seat wear caused by scrubbing. Its design alleviates water hammer and resultant damaging effects and ensures positive closure, leaving your system performing at its best.

Sizes	2" - 72"
Pressure ratings	ASME Class 125-2500
Temperature range (seat dependent)	(-70)-1000+
Materials	Iron, Carbon Steel, Stainless Steel, Aluminum Bronze, Alloy 20, Monel, Nickel
Standards	ASME B16.1, B16.5, B16.34, B16.47 and B31.1 API 594 and 598 MSS-SP-25, MSS-SP-55 API 6A and 6D (as applicable) MSS-SP-61 (standard for the resilient seated, metal seated when required)
Style	CV-Standard Wafer CVR - Retainerless Wafer

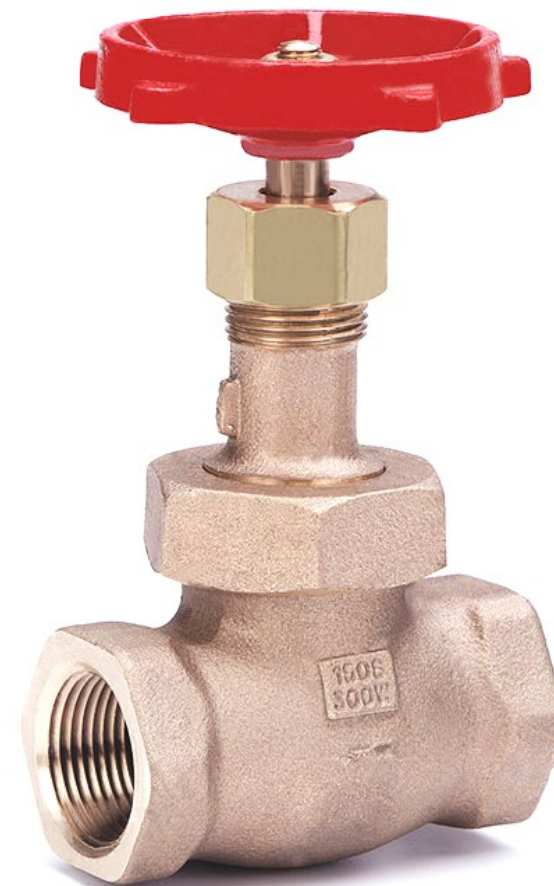


Milwaukee Valve

NAVY BRONZE GLOBE VALVE [↗](#)

The figure number 803-1385541 is a Navy bronze globe valve. It is available in sizes from 1.5" - 2.5" with a pressure rating of 250 psi. This valve is flanged by a hose globe, and the bonnet is held on by a threaded union, featuring a monel trim with a composition disc.

Sizes	1-1/2 - 2 1/2 inch
Pressure ratings	250 psi
Standards	NAV- SHIP DWG #803-1385711
Design	Flanged by hose globe, union bonnet, monel trim with composition disc
Flange	Per MIL-F-20042





Milwaukee Valve

NAVY BRONZE GATE VALVES

Milwaukee Valve Navy bronze gate valves are stocked and distributed by JA Moody throughout North America. These valves are recommended for water, oil, and gas service. This valve is manufactured specifically to meet Navy standards.

Sizes	2" - 4"
Pressure ratings	250 psi
Design	BUSHIP DWG #803-2177917
Flange	Bolted/OS&Y, Seat Material Ni-Cu Alloy.

Sizes	1" - 12"
Pressure ratings	100, 250, and 400 PSI
Standards	MIL-V-1189 Type 1, Class 1
Design	Flanged End, B.B., OS&Y





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Milwaukee Valve

BRONZE SCUPPER VALVE

The Bronze Scupper Valve (model number: B1626E) has a flanged end, monel trim, and is drilled or undrilled. The seat and ring is replaceable.

Sizes	2" - 6"
Pressure ratings	150 psi
Standards	ASTM, ANSI





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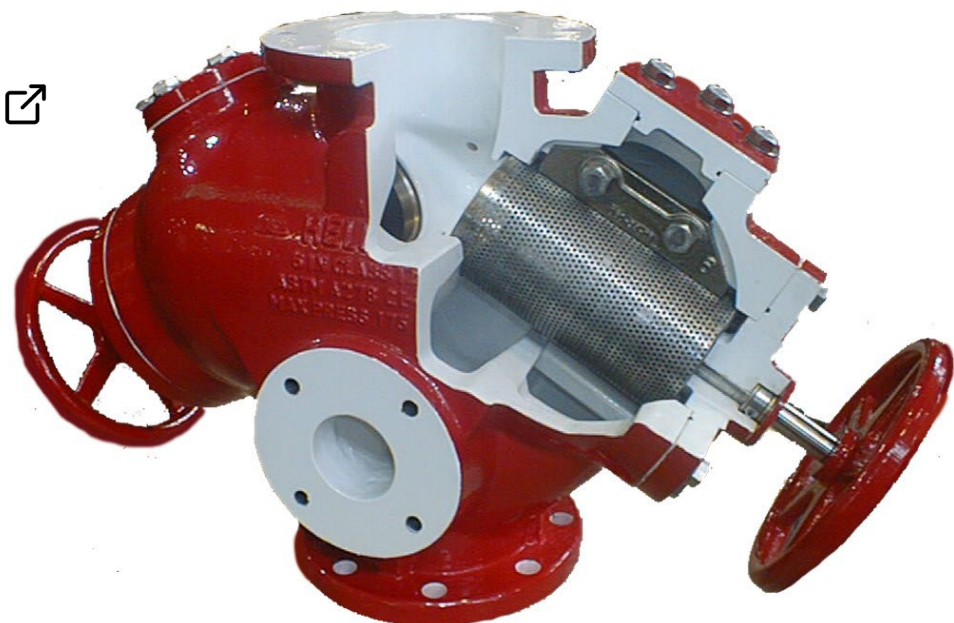
Hellan Strainer Company

HELLAN ONLINE CLEANABLE SH/DH NAVY STRAINERS

Military online cleanable strainers are used on military ships throughout the world for seawater cooling and filtration of main propulsion, sea chest, HVAC, diesel generators, gear coolers, stern tube, bilge water, sonar, radar, weapons systems, zebra mussels, reverse osmosis, and more.

Models SH and DH (single screen vs. double screen) can be supplied as Inline or Angled Flow and either manually operated or automatic, fulfilling any requirement for your service needs.

Hellan Navy Self Cleaning Strainers are ABS-NVR approved and Shock Qualified to MIL-S-901 Grade A.



Sizes	1 - 1/2" - 12" NPS
Pressure ratings	250 psi
Flanges	NAVY 150LB & 250LB
Material	B148 Bronze-C95800/Monel Internals
Screen Perforation	1/32" thru 3/8" perforation



Hellan Strainer Company

STAPLES & PFEIFFER SIMPLEX STRAINERS

Commercial and Military Simplex Strainers are used for removal of debris from liquid flow to protect the downstream mechanical equipment. Model 135B S&P strainers employ a single, stationary screen to remove solids as they flow through the screen. Cleaning of the Model 135B is accomplished by removing the screen while the system is not under pressure.

Military simplex basket strainers are designed for an open area straining ratio of at least 6:1, which means fewer operating costs to clean the baskets. The heavy-duty wall thickness offers lower life cycle costs.



Sizes	1/2" - 24" NPS (Custom sizes avail.)
Operating Pressure	150-300 psi
Operating Temperatures	Up to 1000°F
Materials	Bronze ASTM B61, Aluminum Bronze ASTM C958, Steel ASTM 216, Stainless Steel ASTM A351, Other Alloys
Screen Material	Bronze, Monel, 316 SS (specify Perf. and/or Mesh)
MIL-Specs	MIL-S-16293
Class/Flanges	ANSI/ASME 150# & 300#, Navy MIL-F-20042D, DIN
Connection Types	Flanged, Socket Weld, Butt Weld, Sil-brazed



Hellan Strainer Company

STAPLES & PFEIFFER DUPLEX STRAINERS

Military Duplex Strainers are used in lines that continuously run and do not need to be shut down. The S&P Military Duplex Strainer uses a tapered plug design with twin baskets and are equipped with a diverter handle to switch from one basket to the other.

When not in use, it can be removed and cleaned without interrupting the pipeline flow with no shut-downs required. S&P duplex strainers utilize an increased wall thickness.



Sizes	3/4" – 8" NPS
Operating Pressure	150-300 psi
Materials	Bronze ASTM B61
Screen Materials	Bronze, Monel (specify Perf. and/or Mesh)
MIL-Specs	MIL-S-17849D Type II, Class 2
Flanges/Class	ANSI 150# & 250#, Navy MIL-F-20042D, DIN
Connection Types	Flanged



Hellan Strainer Company

STAPLES & PFEIFFER Y-STRAINERS

Hellan Strainer's line of Staples & Pfeiffer Military Y-type Strainers are fabricated in sizes ranging from 1/2" to 10" NPS and are available in Bronze or Aluminum Bronze with 316 SS or Monel screens.

Y Strainers are used for removal of small volume solids in liquid, gas, and steam applications. S&P strainers come with an option blow-off connections allow cleaning of the screen while removing the cover.

All S & P products are shock approved to MIL-S-901D.

Sizes	1/2" - 10" NPS
Operating Pressure	150-2500 psi
Operating Temperatures	Up to 1000°F
Materials	ASTM B61, ASTM C-958
Screen Material	316 SS, Monel (specify perf. upon order)
MIL-Specs	MIL-S-2953, MIL-S-16293, DWG 803-841499
Class/Flanges	ANSI/ASME: 150, 300, 600, 1500, 2500. DIN & Navy MIL-F 20042D Flanges Available
Connection Types	Flanged, Socket Weld, Butt Weld, Sil-brazed, Union End





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Hellan Strainer Company

HELLAN JP-5 FUELING HOSE REELS [↗](#)

Hellan refueling reels are custom designed for refueling stations on all class ships with fixed or rotary type aircraft such as CVN, FFG, LCS, LHA, LHD, LPD, LSD, and others.

Hellan refueling hose reels are built to MIL Spec MIL-R-15917F and meets most of ASTM 1347.

Hose Size	100' to 200'
Frame	Aluminum (non-sparking reel) with Bronze Fluid Path
Options	Electrical Continuity Wire through fluid path





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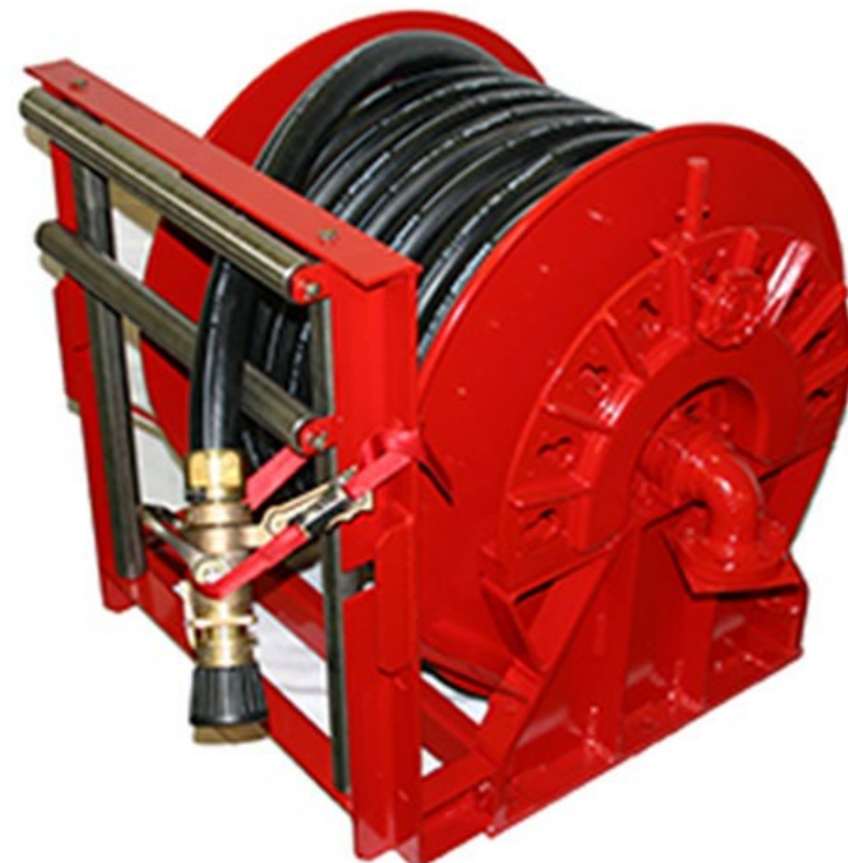


Hellan Strainer Company

HELLAN AFFF HOSE REEL – MODEL NL20M & N25 SERIES [↗](#)

Hellan hose reels and assemblies are built to the highest quality standards and in accordance with MIL Specs MIL-R-24414D and MIL-R-24580.

Hose Size	50' - 200'
Frame	Aluminum or Steel
Rewinds	Right Hand (RH), Left Hand (LH), or Universal Rewinds
Guides	Optional
Hose and Nozzles	Optional
ENL	Fuelling on smaller AFFF Frame





Nu-Torque Actuators

E05 ACTUATOR

The E05 actuator has been specifically designed to meet the requirements of the marine environment. The actuator is made with cast aluminum, ductile iron or silicon bronze housings, bronze and steel gears, and shafts that create a highly efficient, corrosion-resistant device.

Switches	250 VAC, 5 AMP
Motor Voltage	115 VAC, Single phase, 60 Hz 440 VAC, 3 phase, 60 Hz
Weight	21-25 lbs. AL 41-47 lbs. BRNZ
Housing	Cast Aluminum (UPPER) Cast Sil bronze (LOWER) All Cast Sil Bronze (OPT)
Motor Standards	IEEE-45 (STD) MIL-M-17059 (OPT) MIL-M-17060 (OPT)
Output Torque	E05Q- 100-9,000 in. lbs. E05M- 50-500 in. lbs.
Output Speed	E05Q- 4 to 30 seconds 90 degrees E05M- 12 to 36 rpm





Nu-Torque Actuators

QUARTER-TURN MS05/MS12 ACTUATOR

The Nu-Torque MS Series actuators have been designed to meet the requirements of the marine environment. While the cast ductile iron or silicon bronze housings, and bronze and steel gears, shafts and hardware resist the marine corrosion, they are also the ideal choice for applications requiring low magnetic components. Built to MIL-M-17059 or MIL-M-17060 to provide extended life under the toughest shipboard conditions.

Switches	250 VAC, 5 AMP
Motor Voltage	115 VAC, single phase, 60 Hz 440 VAC, 3 phase, 60 Hz
Weight	41-47 lbs.
Housing	Cast silicon bronze
Motor Standards	MIL-M-17059 MIL-M-17060 IEEE-45
Output Torque	MS05Q- 100 - 10,000 in. lbs MS05M- 50 - 500 in. lbs.
Output Speed	MS05Q- 4 to 30 seconds, 90 degrees MS05M-12 to 36 rpm





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Rotork

ROTORK IQ3 MULTI-TURN VALVE ACTUATOR [↗](#)

IQ3 Range multi-turn electric actuators can be used for isolation or regulating duties of up to 60 starts per hour. They can be supplied as watertight or explosion-proof, with a direct torque output range from 14 Nm (10 lbf.ft) to 3,000 Nm (2,200 lbf.ft).

With the addition of second stage gearboxes, multi-turn output torque up to 43,000 Nm and quarter-turn up to 1,000,000 Nm is available.

The IQ3 is backwards compatible to the 1960's and "future proofed" to allow all embedded software to be upgraded in the field.

Actuator Type	Multi-Turn
Torque Range	14 Nm-3,000 Nm
Electrical Supply	1-phase 3-phase DC
Duty Cycles	60 per hour





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Rotork

ROTORK IQ3 RHS VALVE ACTUATOR

The RHS (Remote Hand Station) allows for safe and secure local monitoring and control of Rotork IQ3 range actuators installed in inaccessible locations. The RHS uses the same display and controls interface from the IQ3, meaning that users can remotely operate, interrogate and configure the IQ actuator from up to 100 m distance. Thanks to the familiar, feature-rich interface, the setup couldn't be simpler using the Rotork Bluetooth® Setting Tool Pro supplied with the IQ. This software makes it easy for data logs to be viewed and downloaded locally at the RHS instead of having to gain access to the actuator manually. Where the power for the RHS is supplied by the actuator, removing the need for supplementary power supplies.





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Rotork

ROTORK IQT PART-TURN VALVE ACTUATOR [↗](#)

IQT part-turn 3-phase, 1-phase and DC electric actuators are designed for isolation or regulation duties (S2 & S3/Class A & B) of up to 1,200 starts per hour.

Direct torque output range from 50 Nm to 3,000 Nm (37 lbf.ft to 2,214 lbf.ft)

Actuator Type	Part-turn Isolating / regulating duty On-off & inching
Torque Range	50-3,000 Nm
Electrical Supply	1-phase 3-phase DC
Duty Cycles	1,200 starts/hour S2/S3 – 25% duty Class A+B

