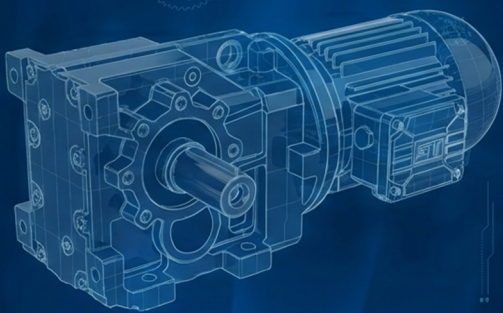


PT. SURRAMA TRIDAYA MANDIRI



Product Catalogue 2026



Scan & find us



Head Office

Citi Square Business Park Blok E No. 6
Jl. Peta Selatan, Kalideres, Jakarta Barat
DKI Jakarta - Indonesia 11840

ABOUT US

Surrama Tridaya Mandiri is a Control & Instrumentation Company providing quality product and services to the industry. Our Philosophy is to work in partnership with our customer to ensure that we provide the right solution to meet your business needs.

We offer a wide range of products to our customers. It is our goal to ensure that you are provided with the best advice to help you choose the right solution or service to enable you to conduct your business activities effectively and efficiently.

Our customers are entitled to demand high quality, best price and prompt response. Therefore we place very high emphasis on not only meeting these requirements but also providing a strong emphasis on customer service and customer service. At STM Control we are committed to serving the needs of our customers above all other considerations. We believe that the formula for the success of our business is directly related to the success of our customer's business.

OUR QUALITY POLICY

STM is a company that undertakes: "Provision of Design, Supply, Installation and Maintenance Service for Valve, Instrumentation and Electrical Equipments."

OUR COMMITMENT:

- To meet customer requirement and increasing customer satisfaction through continual improvement of it's product, service and quality management System.
- To offer the highest quality solution and to always deliver within the timeline given.

OUR VISION & MISSION

To be a leader in valves, instrumentation and electrical solutions provider. We are committed to providing quality products and services with the highest integrity, while achieving cost effectiveness.

MAINTENANCE SERVICES

A successful maintenance strategy requires planning & scheduling maintenance of equipment before a problem occurs. A good preventive maintenance plan also involves keeping records of past inspections and the servicing of equipment.

Our company will always provide the best service maintenance to clients including:

- **PREVENTIVE MAINTENANCE MANPOWER**
Prevent damage to company assets by replacing spare parts regularly based on usage time.
- **CALIBRATION & CERTIFICATION**
The comparison process involves measuring with known references to be accurate with the calibrated
- **PARTS REPLACEMENT**
Replacement of existing parts or products with the same or better quality than before.
- **ELECTRICAL ENGINEERING & POWER DISTRIBUTION**
Marketing and distributing electronic products made locally and internationally.
- **INSTRUMENTATION & ENGINEERING CONTROL**
Measure and control process variables, design, and implement systems that incorporate them and design systems with the desired behavior.
- **INSPECTION & TESTING**
A test procedure performed by a technician to ensure that the circuit is working properly and is safe for use before being energized.



DUMPER

HEAT RECOVERY STEAM GENERATOR



DIVERTER DAMPER



SEAL AIR SYSTEM



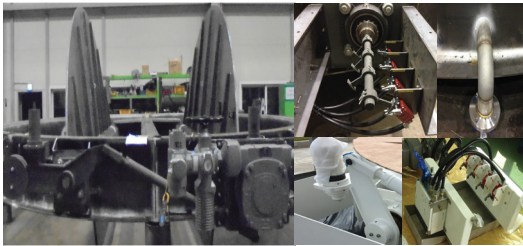
GUILLOTINE DAMPER



BY-PASS STACK EXPANSION JOINT



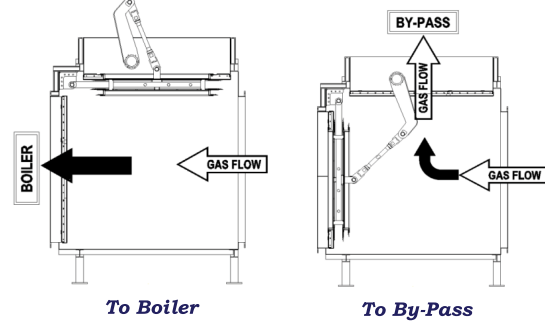
MAIN STACK DAMPER



BY-PASS STACK SILENCER



GAS FLOW IN DIVERTER



HEAT EXCHANGER

AIR COOLED HEAT EXCHANGER



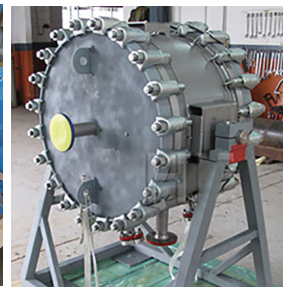
SHELL & TUBE HEAT EXCHANGER



CHANGE AIR COOLER



SPIRAL HEAT EXCHANGER



SPIRAL HEAT EXCHANGER



HEAT EXCHANGER COMPONENTS



HEATING & COOLING COILS



PLATE HEAT EXCHANGER



WASTE HEAT RECOVERY



AIR COMPRESSOR INTERCOOLER

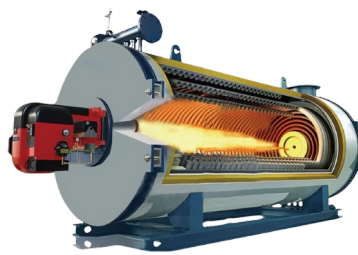


BOILER

HOT WATER BOILER



THERMAL OIL HEATERS



SOLID FUEL BOILER



FIRE TUBE BOILER





Globe Valve

- **Design & manufacture:** BS5352, MSS SP-118
- **Connection ends:** ANSI B16.11; JB/T1751, ANSI B1.20.1; JB/T7306
- **Test And inspection:** API 598; GB/T13927; JB/T9092
- **Structure features:** Bolted bonnet, outside screw and yoke
- **Materials:** ANSI/ASTM, A105
- **Carbon Steel Temperature-Pressure:** CL800-1975 P.S.I @ 100 °F



Gate Valve

- **Design & manufacture:** API 602, BS5352, ANSI B16.34
- **Connection ends:** ANSI B16.11; JB/T1751, ANSI B1.20.1; JB/T7306
- **Test And inspection:** API 598; GB/T13927; JB/T9092
- **Structure features:** Bolted bonnet, outside screw and yoke
- **Materials:** ANSI/ASTM, A105
- **Carbon Steel Temperature-Pressure:** CL800-1975 P.S.I @ 100 °F



Butterfly Valve

- **Design & manufacture:** BS5352, MSS SP-118
- **Connection ends:** ANSI B16.11; JB/T1751, ANSI B1.20.1; JB/T7306
- **Test And inspection:** API 598; GB/T13927; JB/T9092
- **Structure features:** Bolted bonnet
- **Materials:** ANSI/ASTM
- **Carbon Steel Temperature-Pressure:** CL800-1975 P.S.I @ 100 °F

KITZ



Globe Valve

- **Body Material:** FCD-S
- **Class:** 10K
- **Material:** Stem SUS420J2, Disk SUS403, Bonnet FCD-S, Handle, FCD450-10, Gasket C1100P-O



Gate Valve

- **Body Material:** FCD-S
- **Class:** 10K
- **Material:** Stem SUS403, Disk SUS403 / SCS1 (40~200), A105 + 13 Cr (250), SCPH2 + 13Cr (300~500), Bonnet FCD-S, Gland FCD-S (400 & 500:SUS403)
- **Gasket:** Stainless Foil inserted Flexible



Butterfly Valve

- **Body Material:** ADC12
- **Class:** 5K/10K
- **Material:** Stem SUS403 / SUS410, Disk SCS14A, Stem Bearing PPS, Sheet & O ring EPDM, Handle ADC12

OMB



Gate Valve

- **Pressure:** CLASS 800
- **End Connection:** Socket Weld
- **Size:** 1/2 - 1/2
- **Body:** A105n
- **Bonnet:** A105n
- **Stem:** A276 410
- **Disc:** A276 410 Stellite 6 Gr.6
- **Body Seat:** A276 410 Stellite Gr.6
- **Details:** Bolt Bonnet Os & Y Api 602



Globe Valve

- **Pressure:** Class 150
- **End Connection:** Flange Ends
- **Size:** 1/2 - 1 1/2
- **Body:** A105n
- **Bonnet:** A105n
- **Stem:** A276 410
- **Disc:** A276 410
- **Body Seat:** A276 410 Stellite Gr.6
- **Details:** Bolt Bonnet Os & Y Api 602 Ansi 150 (Rf)



Check Valve

- **Pressure:** Class 800
- **End Connection:** Npt
- **Size:** 1/2 - 1
- **Body:** A105n
- **Bonnet:** A105n
- **Disc:** A276 410 Stellite Gr.6
- **Body Seat:** A276 410 Stellite Gr.6
- **Details :** Pistion Type Bolt Bonnet Api 602

PKvalve



Gate Valve

- **Body Material:** A216 WCB or A352 LCC
- **Design:** Socket Weld
- **Testing:** 1/2 - 1/2
- **Emission standard:** A105n
- **NACE MR01-75** (body material LCC)



Globe Valve

- **Body Material:** A216 - WCB
- **End Connection:**
 - R.f Flanged Ends To Asme B16.5
 - B.w. Ends To Asme B16.25
 - R.t.j Flanged Ends To Asme B16.5
 - Size 26" And Larger, Flanged Ends According To Asme B16.47 Ser.a Or Ser.b



Ball Valve

- **Body Material:** A216 - WCB
- **End Connection:**
 - R.f Flanged Ends To Asme B16.5
 - B.w. Ends To Asme B16.25
 - R.t.j Flanged Ends To Asme B16.5
 - Size 26" And Larger, Flanged Ends According To Asme B16.47 Ser.a Or Ser.b
 - Consult Us For Larger Size



Gate Valve

- **Size:** 1/4 NPS - 42 NPS
- **Class:** 150 - 4500
- **Design:** API 602, API 600, ASME B16.34
- **Marking:** MSS SP-25
- **Fugitive emission:** API 624, ISO 15848, TA Luft
- **Face to face:** ASME B16.10
- **Socket weld:** ASME B16.11
- **Screwed ends (NPT):** ASME B1.20.1
- **Flanged ends:** ASME B16.5



Pressure Seal Valves

- **Size:** 1/2 NPS - 24 NPS
- **Class:** 600 - 2500
- **Design:** ASME B16.34, MSS SP-144
- **Marking:** MSS SP-25
- **Fugitive emission:** ISO 15848
- **Face to face:** ASME B16.10
- **Socket weld:** ASME B16.11
- **Screwed ends (NPT):** ASME B1.20.1
- **Flanged ends:** ASME B16.5



Trunnion Ball Valves

- **Size:** 1/2 NPS - 24 NPS
- **Class:** 150 - 2500
- **Design:** ASME B16.34, ISO 17292, API 608, API 6D
- **Marking:** MSS SP-25
- **Fugitive emission:** ISO 15848
- **Face to face:** ASME B16.10
- **Socket weld:** ASME B16.11
- **Screwed ends (NPT):** ASME B1.20.1
- **Flanged ends:** ASME B16.5

KPC



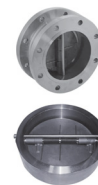
Globe Valve

- Globe valve is suitable for the use of flow control and opening / closing fluid in uni-direction.
- Short stroke of valve brings shorter operating.
- As linear movement valve, long face to face dimension is featured for adopting long flow passage which is required to ensure smooth flow by valve without sudden revolution.



Wedge Seal Top Entry Ball Valve

- **Class** ANSI Class 150-300-600-900-1500
- **End Connection:** NPT-Socket Weld- Butt Weld. [1/2" to 2"], RF Flanged Type/RTJ Type
- **Size:** 1/2" inclusive through to 16"
- **Temperature:** -196° C ~ 850° C (-320° F ~ 850° F)



Dual Plate Check Valves

- **Design Standard:** API 594
- **Pressure Temp. Ratings:** ASME 16.34
- **Valve Testing:** API598
- **Face-to-face Dimensions:** API594, Also complies with API 6D, ISO 14313, ASME B 16.10
- **Flange Dimensions:** ASME B16.5 for NPS 2-20 (DN 50-500)



Globe Valve

- **Size Range:** NPS 2-18 (DN 50-450)
- **Pressure Class:** ASME Classes: 300-600
- **Standard Connections:** Flanges
- **Body Material:** Bolted bonnet cast carbon, stainless or alloy steel



Gate Valve

- **Product Line:** Corrosion resistant cast stainless steel valves
- **Size Range:** NPS 1/2 - 24 (DN 15 - 600)
- **Pressure Class:** ASME classes 50 - 600
- **Standard Connections:** Flanged, threaded, socket weld



Check Valve

- **Product Line:** Corrosion resistant cast stainless steel valves
- **Size Range:** NPS 1/2 - 12 (DN 15 - 300)
- **Pressure Class:** ASME classes 150-600
- **Standard Connections:** Flanged, threaded, socket weld or combination



MILWAUKEE VALVE



Globe Valve

- **Body Style:** Globe
- **Material:** Cast Steel
- **Trim:** CR-13 Stem, CR-13 Disc Face, HF(COCR) Seat Face; API Trim # 8
- **ANSI Class:** 150
- **End Connection:** Flanged/Raised Face
- **Product Size:** 2", 2-1/2", 3", 4", 5", 6", 8"



Gate Valve

- **Material:** Bronze
- **ANSI/Press. Rating:** 150 SWP-300 WOG
- **End Connection:** Threaded
- **Stem Type:** Non-Rising
- **Bonnet Type:** Threaded
- **Seat Material:** Bronze
- **Disc Material:** Solid Wedge
- **Product Size:** 1/4", 3/8", 1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4"



Check Valve

- **Body Style:** Check
- **Material:** Cast Steel
- **Trim:** CR-13 Stem, CR-13 Disc Face, HF(COCR) Seat Face; API Trim # 8
- **ANSI Class:** 300
- **End Connection:** Flanged/Raised Face
- **Product Size:** 2", 2-1/2", 3", 4", 5", 6", 8", 10", 12"



Globe Valve

- **Conn. Type:** Flange
- **Design:** Electric actuator, Handwheel
- **Casing material:** EN-GJL-250
- **Nominal press.:** PN 6, PN 16
- **Max. & Min. nominal size:** DN 200 & DN15
- **Max. & Min. allowable fluid temp.:** 120 °C & -10 °C



Knife Gate Valve

- **Conn. Type:** Flange
- **Design:** Electric actuator, Handwheel, Lever, Pneumatic actuator
- **Casing material:** EN-GJS-400-15
- **Nominal press.:** PN 10
- **Max. & Min. nominal size:** DN 1200 & DN55
- **Max. & Min. allowable fluid temp.:** 120 °C & -10 °C



Ball Valve

- **Conn. Type:** Flange
- **Design:** Electric actuator, Handwheel, Lever, Pneumatic actuator
- **Casing material:** EN-GJS-400-15
- **Nominal press.:** PN 10, PN 16, PN 25
- **Max. & Min. nominal size:** DN 2200 & DN 150
- **Max. & Min. allowable fluid temp.:** 80 °C & -10 °C



Globe Valve

- 1/2"~24" (DN15~DN300)
- W.P.: PN16/40, Class 150 / 300 / 600, JIS 10K / 20K
- W.T.: -20°C~200°C (-4°F~392°F)
- Investment Casting
- Rising stem
- API 6D / API 600 / API 602



Gate Valve

- 1/2"~24" (DN15~DN600)
- W.P.: PN16/40, Class 150 / 300 / 600, JIS 10K
- W.T.: -20°C~200°C (-4°F~392°F)
- Investment Casting
- Rising stem
- API 6D / API 600 / API 603



Butterfly Valve

- 2"~24" (DN50~DN600)
- W.P.: PN10/16, Class 125/150, JIS 10K
- Wafer type (2014W)/Lug type (2014L)
- Lever operator / Gear operator
- High performance butterfly valve: 2014H



Gate Valve

- Through-conduit parallel expanding gate valve
- SLS™ spring-loaded lip seal
- Interference fit seats
- Inline-repairable bolted bonnet valve
- Yoke-tube upper flanges in compliance with MSS SP-102 standard
- Single-piece cast body center section



Check Valve

- **Body Material:** A216-WCC
- **Cover:** ASTM A515 Grade 70
- **Liner:** A29-1018 electroless nickel plated (ENP)
- **Piston:** 410 stainless steel (SS)
- **Seat Integral:** A216-WCC
- **Piston Rings:** Cast iron
- **Piston Spring:** Alloy X-750



Butterfly Valve

- **Body:** Long-neck NE-C and NF-C, Short-neck NE-I, NE-D
- **Sizes:** 50 to 900 mm
- **Pressure:** 50 to 300 mm, 350 to 900 mm
- **Temperatures, degF [degC]:** -30 to 300 [-34 to 149]
- **Material:** Bodies (Ductile iron), Discs (Nickel-plated ductile iron, aluminum bronze, and SS), Stems (416 SS), Seats (Buna-N, FKM)



Gate Valve

- **Size:** -46°C up to 200°C
- **Temp.:** API 6A (ISO 10423): - 2000-5000 psi (1 13/16" - 16 3/4") - 10000 psi (1 13/16" - 9") - 15000 psi (1 13/16" - 9") - API6D: 300#-900# (6"-48"), 1500#(6"-42"), 2500#(6"-24")
- **Materials:** Carbon steel, low alloy steel, stainless steel, duplex, super duplex, inconel, nickel-based alloys
- **End conn.:** BW, RF, FF, RTJ, CLAMPS



Globe Valve

- **Size:** 1/2" up to 48"
- **Temperature:** Down to -196°C
- **Pressure:** 150 lbs up to 2500 lbs
- **Standards:** API, BS, MSS, ANSI, ASME, ASTM, DIN, ISO, EN, JIS
- **Materials:** CF3, CF3M, CF8, CF8M, 304, 304L, 316, 316L
- **End connections:** BW, RF, FF, NPT, RTJ, SW; CLAMPS



Butterfly Valve

- **Size:** 8" up to 72"
- **Temperature:** Down to -196°C
- **Pressure:** 150 LBS up to 600 LBS
- **Standards:** API 609, API 607, API 598 and BS 6364
- **Materials:** CF3, CF3M, CF8, CF8C, CF8M, CK-3MCCUN
- **End connections:** RF, BW



EW Series Control Valves

- **Material:** Carbon Steel, Stainless, Duplex, Alloy
- **Operating Temp. :** Standard Temperature
- **Pressure Class:** PN, ASME
- **Process Conn. Type:** Flanged, Butt Weld, RTJ
- **Shutoff Class:** Class II (FCI 70-2), Class III (FCI 70-2), Class IV (FCI 70-2), Class V (FCI 70-2)
- **Valve Size:** NPS 4 through NPS 24



D & DA Control Valves

- **Material:** Carbon Steel
- **Operating Temp. :** Standard Temperature
- **Pressure Class:** ANSI CL150, ANSI CL300, ANSI CL600, ANSI CL1500, 3600 psi CWP, 6000 psi CWP
- **Process Conn. Type:** Threaded, Flanged, Socket Weld, RTJ
- **Shutoff Class:** Class IV (FCI 70-2), Class V (FCI 70-2)
- **Valve Size:** NPS 1, NPS 2



Cryogenic Control Valve

- **Material:** Stainless
- **Operating Temp. :** Cryogenic
- **Pressure Class:** PN, ASME
- **Process Conn. Type:** Flanged
- **Shutoff Class:** Class IV (FCI 70-2), Class V (FCI 70-2), Class VI (FCI 70-2)
- **Valve Size:** NPS 1 through NPS 30



AND EVERYTHING FLOWS



Globe Valve 251GR

- **Usage:** Low-pressure service, On/off service, Throttling service, High-pressure service
- **Medium Temperature:** -50 to 600 °C / -58 to 1112 °F
- **Valve Size:** NPS ½ to NPS 8
- **Press. Rating:** Class 150 to Class 900



Ball Valve BR 26/Multi-port

- **Usage:** Low-pressure service, Mixing or diverting service, On/off service
- **Medium Temperature:** -10 to 200 °C / 14 to 392 °F
- **Valve Size:** NPS ½ to NPS 8
- **Press. Rating:** Class 150 to Class 300



Butterfly Valve LTR 43 Anti Surge

- **Usage:** Throttling service, Low-pressure service, High-pressure service
- **Medium Temperature:** -47 to 650 °C / -52.6 to 1202 °F
- **Valve Size:** DN 80 to DN 2400
- **Press. Rating:** PN 10 to PN 250



Control Valve Series 2000

- **Nominal pressure:** PN16 - PN40 / ANSI150, ANSI300
- **Nominal size:** DN15 - DN300
- **Leakage class:** class IV, class V, class VI
- **Medium:** Fluid, Steam, Gas
- **Actuation:** Pneumatic or electrical
- **Body material:** Ductil iron, carbon steel, stainless steel



Control valve series V5066

- **Nominal pressure:** PN16 - PN25
- **Nominal size:** DN15 - DN80
- **Leakage class:** class IIIclass IVclass IV
- **Actuation:** Pneumatic or electrical
- **Body material:** Ductil iron-(carbon steel)



Level Electrode, NRS1-7b

- **Nominal pressure:** PN40 - PN160
- **Nominal size:** DN15 - DN300
- **Leakage class:** class IIIclass IVclass Vclass VI
- **Medium:** Fluid, Steam, Gas
- **Actuation:** Pneumatic or electrical
- **Body material:** Carbon steel, stainless steel



Shut-off and Control Valves

- **Nominal diameter:** DN 15 ... 100, NPS ½ ... 4
- **Nominal pressure:** PN 16 ... 160 CL 150 ... 900
- **Max. press / temp.:** According to DIN EN 1092, ASME B16.34
- **Flanges:** According to DIN 2501; EN 1092-1 and EN 1092-2, According to ASME B16.5



Three Way Control Valves

- **Nominal diameter:** DN 20 ... 100
- **Nominal pressure:** PN 16, 25
- **Seat leakage:** According DIN EN 1349, Class IV (metal to metal)
- **Flanges:** Connection according to DIN 2501 Facing DIN 2526 Form C



Heavy Duty Control Valves

- **Nominal press.:** CL 150 ... 600 NPS 10 ... 16
- **Nominal diameter:** NPS 2 ... 16
- **Shutoff Class:** According ANSI / FCI 70-2, Standard trim Leakage Class IV, (-29 °C to +538 °C)



Stainless Steel Control Valve

- **Nominal pressure:** PN 16/25/40
- **Nominal diameter:** DN 15 - 50
- **Temp. range:** -10 °C to 240 °C
- **Body material:** Stainless steel (1.4571)



Standard 2-way Control Valve

- **Nominal pressure:** PN 16/25/40
- **Nominal diameter:** DN 15-300
- **Temp. range:** -10 °C to 350 °C
- **Cooling tube and bellows**
- **Body material:** Spheroid ductile iron 5.3103 (only PN 16/25) or cast steel 1.0619



Standard 3-way Control Valve

- **Fluid:** water / hot water; Thermal oil
- **Nominal pressure:** PN 16 / 40
- **Nominal diameter:** DN 15 - 125
- **Temperature range:** -10°C to 350°C (on request up to 450°C, with bellows up to 400°C)
- **Body material:** spheroid ductile iron (5.3103) / cast steel (1.0619)



Control Valves CT-100

- **Nominal size:** 15A (1/2") - 50A (2")
- **End conn.:** JIS 10KRF/20KRF, ASME Class 150/300 or EN PN16/25 flanged
- **Max. press.:** 2.5 MPa (*1)
Max. working press.: 1.0MPa, 1.6MPa or 2.5MPa *1
- **Working temp.:** -5 to 250°C (no freezing) *1
- **Seat leakage:** Cv 0.01% or less (ANSI Class IV)



Air Operated Valve KBFV-1S

- **Nominal size:** 50A (2") - 150A (6")
- **End conn.:** Wafer (connectable to JIS10K, ASME Class 150 and EN PN16 flanges)
- **Max. press.:** 1.9 MPa (*1)
- **Max. temp.:** 190 degree(C) (*1)
- **Operating fluid:** Air or nitrogen gas
- **Operating air press.:** 0.4MPa to 0.8MPa
- **Ambient temp.:** -20 to 80 degree(C)



Control Valves CT-1

- **Nominal size:** 15A (1/2") - 100A (4")
- **End conn.:** JIS 10KRF, ASME Class 150 or EN PN16 flanged
- **Max. press.:** 1.0 MPa
- **Working temp.:** -5 to 210 degree(C)
- **Ambient temp.:** -20 to 70 degree(C)
- **Valve seat leakage:** Cv x 0.01% or less (ANSI Class IV)

BK Thermostatic Steam Traps



- DN 15–25 (NPS ½”–1”)
- PN 40/Cl 300
- Max. differential pressure: 22 or 32 bar
- Easy to install RHOMBUSline body with recessed body gasket and metal base bushing
- Integrated non-return valve action
- Dirt strainer with large surface area (Y-strainer)

DK Thermodynamic Steam Traps



- DN 10–25 (NPS ¾”–1”)
- PN 63
- Max. differential pressure: 42 bar
- Dirt strainer with large surface area (Y-strainer)
- Screwed end

UNA Ball Float Steam Trap



- DN 15–65 (NPS ½”–2½”)
- PN 40/Cl 300
- Max. differential pressure: 32 bar
- Rolling ball regulator with various pressure capabilities AO2–AO32 (DN 15–65)
- MAX regulator (DN 40–65) for large condensate flowrates over 15,000 kg/h (hot condensate)
- Automatic venting (DUPLEX) or hand-vent valve (SIMPLEX)

VYC industrial

Thermodynamic Steam Trap



- **Connection:** Flange x Flange
- DN15 to 25
- **Material:** Stainless steel, PMA, 63 bar
- **Seal:** Metal
- **Temp.:** +400°C
- 0,20 bar to 42,00 bar

Bimetallic Steam Trap



- **Connection:** Female thread GAS, NPT, Socket welding ends SW
- **R:** BP 1/2” and 3/4”, MP 1/2” and 3/4”, AP 1/2” to 1”
- **Material:** Carbon steel, BP, PN-40, MP, PN-40, AP, PN-100
- **Seal:** Metal
- **Temp.:** +450 °C
- 80,00 bar

Float and Thermostatic Steam Trap



- **Connection:** Flange x Flange
- DN 15 to 25, 40 and 50
- **Material:** Carbon steel, PMS-14 bar
- **Seal:** Metal
- **Temp.:** +220°C
- 14,00 bar

YOSHITAKE

Steam Trap Float



- **Nominal size:** 25A (1”) - 50A (2”)
- **End conn.:** JIS Rc or NPT screwed
- **Max. press.:** 2.1 MPa
- **Working press.:** 0.01 - 2.1 MPa
- **Working temp.:** Max. 220 degree(C)
- **Material:** Ductile cast iron, Stainless steel

Steam Trap Bucket



- **Nominal size:** 15A (1/2”) - 25A (1”)
- **End conn.:** JIS 10K FF flanged, JIS 20K FF flanged, EN PN16/25 flanged
- **Max. press.:** 1.6 MPa
- **Max. differential press.:** (A) 0.3MPa, (B) 0.6MPa, (C) 1.0MPa, (D) 1.6MPa
- **Working temp.:** Max. 220 degree(C)
- **Material:** Ductile cast iron, Stainless steel

Steam Trap Disc



- **Nominal size:** 15A (1/2”) - 25A (1”)
- **End conn.:** JIS 10K FF flanged, JIS 20K FF flanged, EN PN16/25 flanged
- **Max. press.:** 2.0 MPa
- **Working press.:** 0.035 - 2.0 MPa (Max. 1.0MPa for JIS10K)
- **Allowable back press.:** 50% of inlet pressure
- **Working temp.:** Max. 220 degree(C)
- **Material:** Ductile cast iron, Stainless steel

VYC industrial

Full lift safety valve spring loading



- **Connection:** Flange x Flange
- **DN1 x DN2:** 20 x 32 to 200 x 300
- **Material:** Cast iron, PN-16, Nodular iron, PN-40, 350 °C, Carbon steel, PN-40, Stainless steel, PN-40
- **Seal:** Metal
- **Temp.:** -60 °C to +450 °C
- 0,20 bar to 40,00 bar

Normal opening safety valve



- **Connection:** Flange x Flange
- **DN1 x DN2:** 15 x 25 to 32 x 50
- **Material:** Bronze, PMS-25 bar, Carbon steel, PMS-25 bar, Stainless steel, PMS-25 bar
- **Seal:** PTFE (Teflon), Silicone's rubber, Fluoroelastomer (Viton)
- **Temp.:** -60 °C to +250 °C
- 0,20 bar to 25,00 bar

Vacuum breaker safety valve



- **Connection:** Male thread x Free admission
- **MNPT1 x 6ØB:** 3/8” x 6ØB to 1” x 6ØB
- **Material:** Brass, 150 lbs, Stainless steel, 150 lbs
- **Seal:** Silicone's rubber, Fluoroelastomer (Viton)
- **Temp.:** -20,2 °F to +842 °F
- 0,725 psi to 2,9 psi

ESKA

Full lift safety valve spring loading



- **Pressure Class:** PN0,5
- **Communication:** NB-IoT, GPRS
- **Connection:** DN32
- **Measuring Range:** 0,04-6m3/h
- **Measurement Accuracy:** Qmax-Qt:±%1,5, Qt-Qmax:±%3
- **Measurement Method:** Ultrasonic

Natural Gas Switch



- **Nominal Press.:** 1 bar
- **Working press.:** 8-500 mbar
- **Position:** Vertical or Horizontal
- **Ambient temp.:** Standard version -10°C to +50°C
- **Connection:** In/Aet-Outlet G 3/4”, G1” inline threaded

Double Stage Gas Pressure



- **Nominal Press.:** 6 bar
- **Accuracy class:** 5/10
- **Lock-up pressure class:** 10/20
- **Inlet pressure:** 0.1 to 6 bar
- **Outlet pressure:** 0.018 to 0.5 bar
- **Safety equipments:** UPSO, OPSO, RELIEF
- **Ambient temp.:** Standard version -20°C to +60°C LT version -40°C to +60°C

GESTRA

Water Level Electrode, NRG16-50



- **End connection:** Flange DN 100, PN 40
- **Measuring range:** 300 mm – 2000 mm
- **Output signal:** 4 potential free change-over contact
- **Voltage:** Standard 115 V / 230 V, Optional 24 V DC, 115 V DC, 24 V AC/DC
- **Frequency:** 50 ... 60 Hz

Level Electrode, NRS1-7b



- **Response delay:** 3 s for industrial application or 15 s for seagoing vessels
- **Optional:** Tropicalized coating for seagoing vessels
- **Power supply:** Standard 230 V, optional 24 V, 115 V, 240V
- **Frequency:** 50/60 Hz

Level Electrode, NRS1-7b



- **Response delay:** 3 s for industrial application or 15 s for seagoing vessels
- **Optional:** Tropicalized coating for seagoing vessels
- **Power supply:** Standard 230 V, optional 24 V, 115 V, 240V
- **Frequency:** 50/60 Hz



Multiterminal MT

- Return filter for DIN elements up to NG 100
- Three connections for return line
- Filling port with quick coupling
- Filling control optional
- Visual/electrical return filter monitoring
- Sampling ports in tank and return line
- Air breather with integrated liquid level and temperature monitoring



Particle Monitor BPM

- Switching output, 4-20 mA and CAN bus
- High pressure resistance
- Purity classes according to ISO 4406:99, SAE AS 4059, NAS 1638 & GOST 17216
- Quick and accurate detection of particles or particle changes
- Easy system connection via Minimesh or G1/4"



Oxygen Flue Gas Analyser BA 2000

- Fast response time
- Tool-less filter change
- Easy handling
- Flue gas temperatures up to 1600 °C / 2912 °F
- Durable ZrO2 measuring cell
- Display with O2 measurements
- 4-20 mA output signal
- Ambient temperature -20 to +70 °C respectively 4 to 158 °F



Pressure Measurement

- Excellent load cycle stability and shock resistance
- With case filling (model 233.50)
- Stainless steel
- Scale ranges from 0 ... 0.6 to 0 ... 1,600 bar or 0 ... 10 to 0 ... 200,000 psi
- QR code on dial links to instrument-specific information



Temperature Measurement

- Nominal sizes 63, 80, 100, 160 mm [2.5, 3, 4, 6"]
- Robust, hermetically sealed case
- External reset for setting the reference temperature
- Dished dial (anti-parallax) for ease of reading
- Adjustable stem and dial version enables optimal process connection



UNA Ball Float Steam Trap

- Multi-functional display
- Simple menu navigation
- Conductive plastic case or stainless steel case (optionally with electropolished surface)
- Large LC display, rotatable
- Approvals for hazardous areas



Level Limiter LW LMC2

- **Regulations applied:** AD2000, EN61508-1/-2/-3, EN61326-1, EN61010-1
- Due to a self-test, the limiter ensures the safety function. Thus it can be implemented in systems with safety requirements up to SIL 3



Reflex Level Gauge RG200

- Indicator body made of pressure vessel steel
- Freely selectable indicator orientation
- Shut-off valves A140-CS up to 120bar
- Sight glass made of borosilicate according to DIN 7081
- Vent plug BSP G 1/2"
- Drain valve



Electronic Level Switch

- Water column with 1 to 4 probes (fully wired)
- Measuring unit (MU); mounted on to the water column housing and fully wired
- NEMA4X/IP66 Control Box with Control unit (CU) for up to 4 independent probe channels and LED indication (fully wired)
- Connecting cables

M1 Pressure Reducing Valve



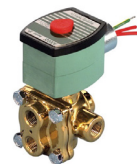
353 Pulse Solenoid Valve

- **Body Material:** Aluminum
- **Port Size:** 3/4"; 1"; 1 1/4"; 1 1/2"; 2"; 2 1/2"; 3"
- **Port Type:** NPTF, G-Thread, Quick Mount Clamp Connection
- **Function:** 2 way - 2/2 Normally Closed
- **Temp.:** -40°F to 140°F, -4°F to 284°F



320 3-Way Solenoid Valves

- **Body Material:** Brass, Stainless Steel
- **Port Size:** 1/8"; 1/4"
- **Port Type:** G ISO228/1-G BSPP
- **Function:** 23 way - 3/2 Normally Closed, 3 way - 3/2 Normally Open
- **Voltage:** 24 DC, 48 DC, 24 AC, 48 AC, 115 AC, 230 AC | 50



342 4-Way Solenoid Valve

- **Body Material:** Brass, Stainless Steel
- **Port Size:** 1/4"; 3/8"
- **Port Type:** NPTF
- **Function:** 4 way - 4/2
- **Voltage:** 125 DC Battery Charging, 110 AC, 12 DC, 120 AC, 250 DC Battery Charging, 480 AC | 50, 50/60, 60



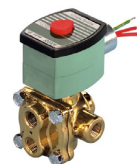
Lead Brass Solenoid Valves

- **Coil Temp.:** -40 +50 °C
- **Valve Type:** 32/2 Way, 3/2 Way
- **Function:** Normally Closed
- **Port Size:** 1/4" g
- **Body Material:** CW510L UNI EN 12165
- **Min. Fluid Temp.:** -10 °C
- **Max. Fluid Temp.:** 140 °C
- **Coil Power Consumption:** 9W, 13W, -, 10W



Pneumatic Solenoid ISO Valve

- **Max. Operating Temp.:** 140.0 °F, 60.0 °C
- **Min. Operating Temp.:** 14.0 °F, -10.0 °C
- **Max. Operating Press.:** 145 psig
- **Port Size:** 1/8" | 1/4"
- **Body Material:** Polyamide Reinforced Fiberglass
- **Input Voltage:** 24VDC to 120VAC
- **Operating Temp.:** -10 to +60 °C, +14 to +140 °F | 10W



5-Way Spring Return

- **Function:** Spring Return
- **Port Size:** 1/4 inch
- **Input Voltage:** 220-230VAC/50Hz or 24/28VDC
- **Body Material:** Anodized Aluminium and Zinc Alloy
- **Power Consumption:** 0.3 to 12 W
- **Min. Fluid Temp.:** -20 °C
- **Max. Fluid Temp.:** 50 °C



Bellows pressure reducing valve

- **Sizes:** DN15 to DN50
- **Connection:** Flanges (EN, ANSI) and Threads (BSP, NPT)
- **Fluids:** Liquids, neutral gases and steam
- **Body Material:** RG10 / WCB / CF3M
- **Nominal pressure:** PN25 - PN40 / CLASS 150 - 300
- **Max. pressure:** 25 barg
- **Valor Kvs:** 9W, 13W, -, 10W



M1 Pressure Reducing Valve

- **Sizes:** DN15 to DN150
- **Connection:** DIN and ANSI flanges, BSP - NPT thread
- **Fluids:** Liquids, neutral gases and steam
- **Body Material:** RG10, WCB, CF3M
- **Nominal pressure:** Up to PN40 / CL300
- **Max. pressure:** 40 barg
- **Valor Kvs:** Up to 240 m3/h



Pressure Reducing Valve PRV45

- **Sizes:** DN15 to DN25
- **Connection:** Flanges (EN, ANSI) and Threads (BSP, NPT)
- **Fluids:** Liquids, inert gases and steam
- **Body Material:** AISI 316L Stainless Steel
- **Nominal pressure:** PN25
- **Max. pressure:** 25 barg
- **Valor Kvs:** 0.2 to 3.5 m3/h

Devcon Brushable Ceramic (Blue)

Devcon Brushable Ceramic (Red)

Devcon Brushable Ceramic (White)

Devcon Ceramic Repair Putty 11700

PETROSEAL


REF	DESIGNATION	Max Pressure	Temperature	Granulometry	Fluidity
JNL 1240B	COMPOUND for steam, air. Raised face flanges-Injected box-Gland Packing.	240bar	-180C to 700°C	Higher	Low
JNL 1241	COMPOUND hydrocarbons, By-products. Raised face flanges-Injected box-Gland Packing	240bar	-180C to 700°C	Regular	Mid
JNL 1242	COMPOUND for steam, air, water. Flat face flanges-Gland packing. For very narrow gap & Injection ring.	240bar	-180C to 700°C	None	High
JNL 1246B	COMPOUND for steam, air, water. Raised face flanges-Pipes-Gland Packing. For thermal variations.	70bar	300°C	Higher	Low
JNL 1247	COMPOUNDS hydrocarbons, By products. Flat face flanges-Gland packing. For very narrow gap & Injection ring.	240bar	-180C to 700°C	None	High
JNL 1249	COMPOUNDS for acids. Raised face flanges-Injected box-Gland Packing. P.T.F.E Based Compound.	120bar	240°C	Regular	Mid

Schneider Electric
Altivar Easy 310


- variable speed drive ATV310 - 5.5 kW - 7.5 hp - 380...460 V - 3 phase
- **EMC filter:** Without EMC filter
- **Supply frequency:** 50/60 Hz +/- 5 %
- **Comm. port protocol :** Modbus
- **Connector type:** RJ45 (on front face) for Modbus
- **Physical interface:** 2-wire RS 485 for Modbus
- **Transmission frame:** RTU for Modbus
- **Transmission rate:** 4800 bit/s, 9600 bit/s, 19200 bit/s, 38400 bit/s

Inverter ATV12 drive


- variable speed drive ATV12 - 0.75kW - 1hp - 200...240V - 1ph - with heat sink
- **EMC filter:** Integrated
- **Network number of phases:** 1 phase
- **[Us] rated supply voltage:** 200...240 V - 15...10 %
- **Motor power kW:** 0.75 kW
- **Motor power hp:** 1 hp
- **Comm. port protocol:** Modbus
- **Line current:** 10.2 A at 200 V, 8.5 A at 240

Altivar Process Modular


- standard power module , Altivar Process Modular, 110...200kW, 500...690V, IP00
- **EMC filter:** Integrated with 300 m conforming to IEC 61800-3 category C3
- **Supply frequency:** 50...60 Hz - 5...5 %
- **Network number of phases:** 3 phases
- **[Us] rated supply voltage:** 500...690 V - 10...10 %
- **Motor power kW:** 160 kW at 500...690 V
- **Motor power hp:** 175 hp at 500...690 V

Altivar Process ATV600


- variable speed drive ATV630 - 110kW/150HP - 380...480V - IP00
- **Comm. port protocol:** Modbus TCP, Ethernet, Modbus serial
- **[Us] rated supply voltage:** 380...480 V - 15...10 %
- **EMC filter:** Integrated with 150 m conforming to IEC 61800-3 category C3
- **Supply frequency:** 50...60 Hz - 5...5 %
- **Motor power kW:** 110 kW
- **Motor power hp:** 150 hp

Altivar Soft Starter ATS130


- Altivar Soft Starter ATS130, 38A, 200 to 480V AC, control supply 24V DC
- **Network number of phases:** 3 phases
- **Ue power supply voltage:** 200...480 V - 15...10 %
- **Power supply freq.:** 50...60 Hz +/- 5 Hz
- **[Ie] rated operational current:** 38 A in line (at <40 °C)
- **Motor power kW:** 11 kW at 230 V, 18.5 kW at 400 V, 22 kW at 440 V
- **Motor power hp:** 10 hp at 200 V, 10 hp at 208 V, 10 hp at 230 V, 25 hp at 460 V

Altivar Machine ATV320


- variable speed drive, ATV320, 2.2 kW, 200...240 V, 1 phase, compact
- **Comm. port protocol:** Modbus serial, CANopen
- **[Us] rated supply voltage:** 200...240 V - 15...10 %
- **Nominal output current:** 11.0 A
- **Motor power kW:** 2.2 kW
- **Motor power hp:** 3 hp
- **EMC filter:** Class C2 EMC filter integrated

YUEMA
Yuema Y3


- **Available Range:** 3HP ~ 430 HP
- **Pole:** 2P/4P/6P/8P
- **Spec.:** Ie1 Efficiency, S1, 3 Phase, Cast Iron Casing, Top Terminal Box, Class F Insulation, Ip55 Protection, Skf/ntn/nsk Bearing, 50/60hz
- **3 Phase, Mounted:** B3, B5, B35
- **Voltage:** 3HP ~ 5.5HP = 220/380V, 5.5HP ~ ABOVE = 380/660V

Yuema YAB


- **Available Range:** 0.12HP ~ 20HP
- **Spec.:** Ie1 Efficiency, S1, 3 Phase, Lenze Dc Brake, Aluminium Casing, Top Terminal Box, Class F Insulation, Ip55 Protection, Best China Bearing, 50/60hz
- **3 Phase, Mounted:** B3, B5, B35, B14, B34
- **Voltage:** 0.12HP ~ 5.5HP = 220/380V, 7.5HP ~ ABOVE = 380/660V

Yuema Y


- **Available Range:** 0.5HP ~ 430HP
- **Pole:** 2P/4P/6P/8P
- **Spec.:** Ie1 Efficiency, S1, 3 Phase, Cast Iron Casing, Side Terminal Box, Class F Insulation, Ip54 Protection, Best China Bearing, 50/60hz
- **3 Phase, Mounted:** B3, B5, B35
- **Voltage:** 0.5HP ~ 5.5HP = 220/380V, 5.5HP ~ ABOVE = 380/660V

Yuema Y3A


- **Available Range:** 0.09 HP ~ 25HP
- **Pole:** 2P/4P/6P/8P
- **Spec.:** Ie1 Efficiency, S1, 3 Phase, Aluminium Casing, Top Terminal Box, Class F Insulation, Ip55 Protection, Best China Bearing, 50/60hz
- **3 Phase, Mounted:** B3, B5, B35, B14
- **Voltage:** 0.09HP ~ 5.5HP = 220/380V, 5.5HP ~ ABOVE = 380/660V

Yuema YU


- **Available Range:** 0.25HP ~ 430 HP
- **Pole:** 2P/4P/6P/8P
- **Spec.:** Ie1 Efficiency, S1, 3 Phase, Cast Iron Casing, Top Terminal Box, Class F Insulation, Ip55 Protection, Best China Bearing, 50/60hz
- **3 Phase, Mounted:** B3, B5, B35
- **Voltage:** 0.25HP ~ 5.5HP = 220/380V, 7.5HP ~ ABOVE = 380/660V

Screw Pump G Series

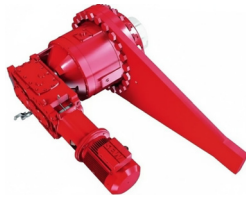

- **Speed:** 88-970 rpm
- **Capacity:** 0.02-129 m3/h(m3/h)
- **Outlet Press.:** 0.3, 0.6, 0.8, 1.2 MPa
- **Temperature:** 200C-2000C
- **Power:** 0.75-55 kW
- **Viscosity:** 3.000.000 mPas



MC Series



MS Series



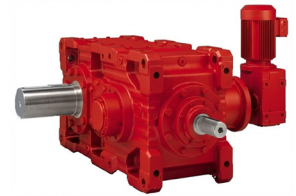
PMC Series



P Series



ML Series



X Series

Fuji Electric

AH164, 165, 165-2 series



AR/DR16 minico series



AH16P, AH16P-2 and AH22P Series



AR22/DR22 series



ABB

Contactors IEC



Contactor Relays IEC



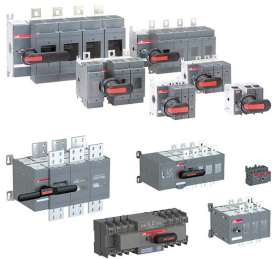
Universal Motor Controllers



Elevator Switches



Rotary Disconnects



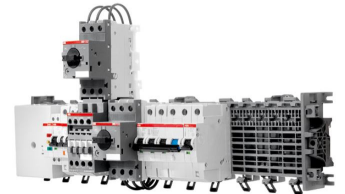
Medium Voltage Outdoor



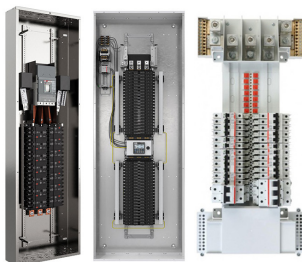
Medium Voltage Circuit Breakers



Modular Busbar System



Lighting Panelboards



Controls & Relays



Paralleling Switchgear



Safety Sensors, Switches, Locks & Gate Boxes





Low Voltage

Model : NYAF, NYY, NYHY, NYM, NYMHY, NYFGBY

Specification :

- Copper conductor
- XLPE insulated
- Double aluminium tape armoured
- PVC sheathed cable

Medium Voltage

Model : N2XSY/NA2XSY, N2XSEY/NA2XSEY, N2XSEBY/NA2XSEBY

Specification :

- Copper/Aluminium conductor
- XLPE insulated
- With or without water sealing
- Copper wire/ tape screened
- Galvanized double steel tape armoured
- PVC sheathed cable

High Voltage

Model : N2XC(AL)2Y/NA2XC(AL)2Y, N2XCK2Y/NA2XC

Specification :

- Copper/Aluminium conductor
- XLPE insulated
- Copper wire screened
- Water sealing
- Aluminium laminated
- PE sheathed cable



Copper - Low Voltage

Model : NYA, N2XA, NYAF, NYM, NYMHY, NYHY, NYY, N2XY, NYY Control, NYFGBY, N2XFGbY, NYFGBY Control, NYRgBy, N2XRGbY, NYRgBy Control, NYR(AL)Y, N2XR(AL)Y, NYRY, N2XRY, NYRY Control, NYBY, N2XBY, NYBY Control, NYSY, N2XSY, NYSY Control, NYCY, NYCY Control, NYSHY, YSLY, LiYCY-OZ, LiYCY-JZ, LiYCY-JB, NAYY, NA2XY, NAYFGbY, NA2XFGbY, NAYRgBy, NA2XRGbY, NAYR(AL)Y, NA2XR(AL)Y, NAYRY, NA2XRY, NAYBY, NA2XBY



Aluminium - Low Voltage

Model : NAYY, NA2XY, NAYFGbY, NA2XFGbY, NAYRgBy, NA2XRGbY, NAYR(AL)Y, NA2XR(AL)Y, NAYRY, NA2XRY, NAYBY, NA2XBY



Copper - Medium Voltage

Model : N2XSY, N2XSEY, N2XSR(AL)Y, N2XCY, N2XSEBY, N2XSEBY, N2XSEFGbY, N2XSEYFGbY, N2XSERY, N2XSERH



Aluminium - Medium Voltage

Model : NFA2XSY - T, NA2XSY - SPLN standard, NA2XSY, NA2XSEY, NA2XR(AL)Y, NA2XCY, NA2XSEBY, NA2XSEBY, NA2XSEFGbY, NA2XSEYFGbY, NA2XSERY, NA2XSERH



Low Voltage

Model : N2XA, N2XBY, N2XCY, N2XFGbY, N2XRGbY, NA2XY, NAYA, NAYBY, NAYFGbY, NAYRgBy, NAYY, NYBY, NYCY, NYFGBY, NYSY



Aluminium - Low Voltage

Model : N2XSEBY, N2XSEFGbY, N2XSERGbY, N2XSEY, N2XSRY, NA2XBY, NA2XFGbY, NA2XRGbY, NA2XSEY, NA2XSEBY, NA2XSEYFGbY, NA2XSEYRGbY, NA2XSY, NF2XSY



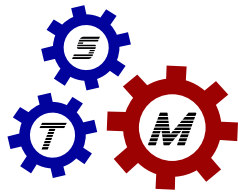
Cable LAN STU (Indoor)



Cable LAN STP (Outdoor)

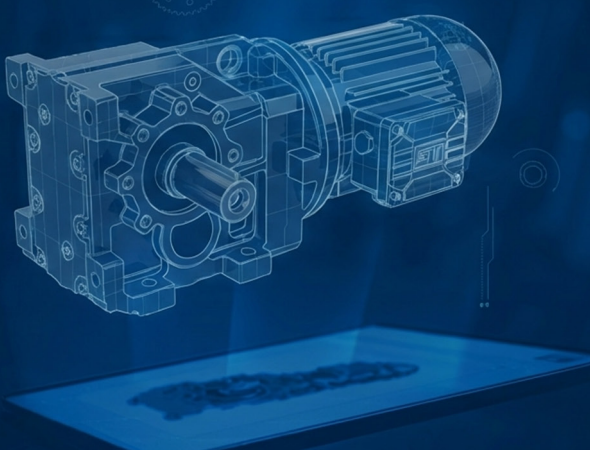


Aerial Cable Fig - 8 Core G652D - 2.000m



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