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KIR



SHANGDONG LEDE MACHINERY CO., LTD
VALVES



MARY



1	Warranty Letter
2	International Certificates UL.FM
3	Approvals
4	Test Certificates
5	Zone Control
6	Ball Valve from 1/2" to 2"



Warranty Letter

LEDE

GROOVED FITTINGS AND VALVES

Warranty

We warrant all Lede products to be free from defects in materials and workmanship under normal conditions of use and service. Our obligation under this warranty is limited to repairing or replacing at our option at our factory or designated facility any product which shall within fifteen *years* after delivery to the original buyer be returned with transportation charges prepaid, and which our examination and inspection shall show to our satisfaction to have been defective.

This warranty is made expressly in lieu of any other warranties, express or implied, including any implied warranty of merchant ability or fitness for particular purpose. The buyer's sole and exclusive remedy shall be for the replacement or repair of defective products as provided herein. The buyer agrees that no other remedy (including but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property or any other incidental or consequential loss) shall be available to him/her.

Lede neither assumes nor authorizes any person to assume for it any other liability in connection with the sale of such products.

This warranty shall not apply to any product which has been the subject to misuse, negligence or accident, which has been repaired or altered in any manner outside of *Lede*'s factory or designated facility or which has been used in manner contrary to *Lede*'s instructions, recommendations or generally accepted practices. *Lede* shall not be responsible for design errors due to inaccurate or incomplete information supplied by the buyer or his representatives.

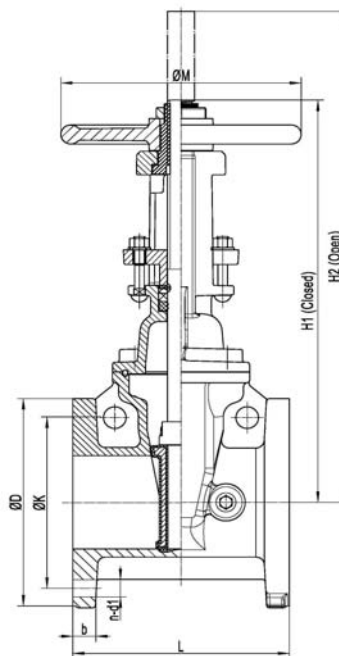
For and on behalf of
SHANDONG LEDE MACHINERY CO., LTD.

许洁

Authorized Signature(s)

Flanged Resilient Seated OS&Y Gate Valve

Model No. 1210



Technical data >

- Size: 2"~12"
- Working pressure: 300psi
- Design standard: AWWA C515
- Face to face: ASME B16.10
- Flange standard: ASME-B16.1 CIASS125
- Tests: AWWA C515
- Temperature range: 0~80 °C

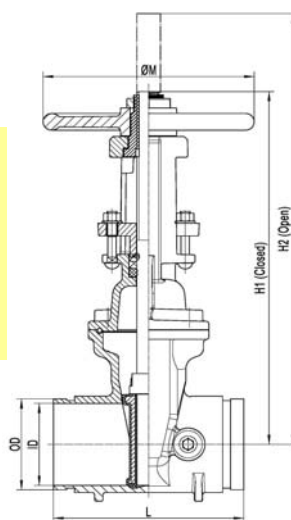
SIZE Inch	OUTLINE (Inch)				END FLANGE CIASS125 (Inch)			
	L	H1	H2	M	D	K	n-d1	b
2	7	13.46	15.67	7	6.00	4.75	4-0.75	0.62
2 1/2	7.5	13.11	15.79	7	7.00	5.50	4-0.75	0.69
3	8	14.89	18.23	7	7.50	6.00	4-0.75	0.75
4	9	17.46	21.63	10	9.00	7.50	8-0.75	0.94
5	10	20.39	25.63	10	10.00	8.50	8-0.88	0.94
6	10.5	23.29	29.59	12	11.00	9.50	8-0.88	1.00
8	11.5	28.78	37.01	14	13.50	11.75	8-0.88	1.12
10	13	35.04	45.28	16	16.00	14.25	12-1.00	1.19
12	14	40.61	52.78	16	19.00	17.00	12-1.00	1.25

Grooved Resilient Seated OS&Y Gate Valve

Model No. 1211

**Technical data** >

- Sizes: 2"~12"
- Working pressure: 362psi
- Valve standard: AWWA C515
- Grooved standard: AWWA C606
- Temperature range: 0~80 °C



SIZE Inch	OUTLINE (Inch)				END GROOVED (Inch)	
	L	H1	H2	M	OD	ID
2	7	13.46	15.67	7	2.37	2.09
2.5	7.5	13.11	15.79	7	2.87	2.48
3	8	14.89	18.23	7	3.50	3.07
4	9	17.46	21.63	10	4.50	4.06
5	10	20.39	25.63	10	5.56	5.04
6	10.5	23.29	29.59	12	6.63	6.10
8	11.5	28.78	37.01	14	8.63	8.03
10	13	35.04	45.28	16	10.75	10.04
12	14	40.61	52.78	16	12.75	11.97

Flanged Swing Check Valve

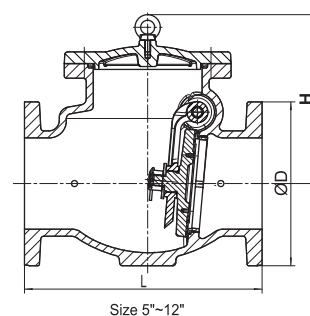
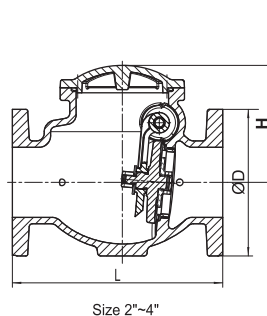
Model No. H44X



Technical data >

- Sizes: 2"~12"
- Working pressure: 300psi
- Valve standard: AWWA C508
- Flange standard: ASME-B16.1 Class125
- Temperature range: 0 ~ 80 °C

Name of parts	Material
Body	Ductile iron
Seat Ring	Bronze
Disc Sealing Ring	EPDM
Disc Plate	SS304
Disc	Ductile iron
Clapper Arm	Ductile iron
Bonnet Gasket	EPDM
Bonnet	Ductile iron
Hinge Pin	SS304
Hinge Bushing	Bronze
Hinge Plug	SS304

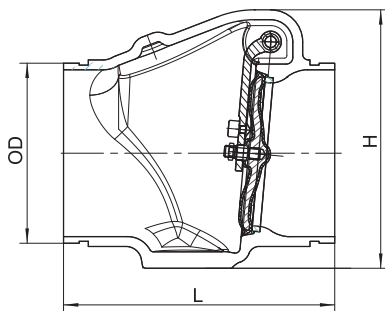


Dimensions		Pressure rating	Size (mm)		
DN	inch		ΦD	L	H
50	2	300	152	203	125
65	2.5	300	178	254	139
80	3	300	191	279	153
100	4	300	229	330	184
125	5	300	254	356	275
150	6	300	279	406	289
200	8	300	343	495	352
250	10	300	406	559	411
300	12	300	483	660	480

Grooved Swing Check Valve

Name of parts	Material
Body	Ductile iron
Seat Ring	Bronze
Disc Sealing Ring	EPDM
Disc Plate	SS304
Disc	Ductile iron
Clapper Arm	Ductile iron
Bonnet Gasket	EPDM
Bonnet	Ductile iron
Hinge Pin	SS304
Hinge Bushing	Bronze
Hinge Plug	SS304

Model No. H84X

**Technical data** >

- Sizes: 2"~12"
- Working pressure: 362psi
- Grooved standard: AWWA C606
- Temperature range: 0 ~ 80 °C

Dimensions		Pressure rating	Size (mm)		
DN	inch		OD	L	H
50	2	362	60.3	167	122.5
65	2.5	362	73	180	136.5
			76.1		
80	3	362	88.9	198	165.5
100	4	362	114.3	229	193.6
125	5	362	139.7	254	235.5
			141.3		
150	6	362	165.1	272	252
			168.3		
200	8	362	219.1	330	314.5

AWWA C515 Flanged Resilient Seated NRS Gate Valve with Indicator Post

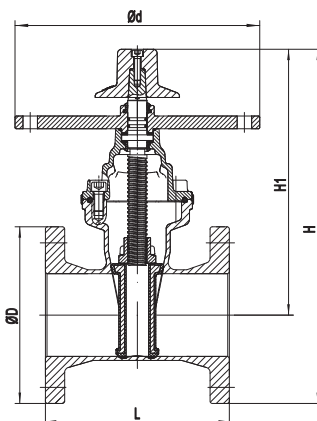
Name of parts	Material
Body	Ductile iron
Wedge	Ductile iron+EPDM
Stem Nut	Bronze
Stem	SS431 or SS304,SS316,bronze
Bonnet	Ductile iron
Bonnet Gasket	EPDM
Sealing Ring	EPDM
Indicator Post Flange	Ductile iron
Sliding disc	Bronze
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Wrench Nut	Ductile iron

Model No. Z45X-04



Technical data >

- Size: 2"~12"
- Working pressure: 175psi, 300psi
- Valve standard: AWWA C515
- Flange standard: ASME-B16.1 Class125
- Temperature range: 0~80 °C



Dimensions		Pressure rating	Size (mm)				
DN	inch	psi	ΦD	L	H1	H	Φd
100	4	175	229	229	332.5	449	305
		300					
125	5	175	254	254	385	512	305
		300					
150	6	175	279	267	432.5	572	305
		300					
200	8	175	343	292	527	698.5	305
		300					
250	10	175	406	330	645	848	305
		300					
300	12	175	483	356	722	963.5	305
		300					

Wafer Butterfly Valve with Tamper Switch

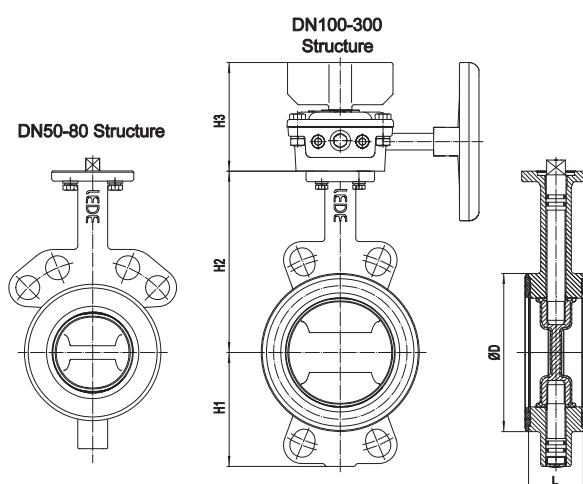
Model No. XD371X



Name of parts	Material
Body	Ductile iron
Plug	EPDM
Driven shaft	1Cr17Ni2
Disc	Ductile iron and EPDM
Actuating shaft	1Cr17Ni2
Bearing bush	Bronze
O-rings	EPDM
Gear operator	Ductile iron and steel

Technical data >

- Sizes: DN50~DN300
- Working pressure: PN16/PN25
- Valve standard: EN593
- Flange standard: ASME-B16.1 Class125 and EN1092-2
- Top Flange standard: EN ISO 5211
- Temperature range: 0 ~ 80 °C
- Suitable for indoor and outdoor use



Dimensions		Pressure rating	Size (mm)					
DN	inch		ΦD	L	H1	H2	H3	Top Flange
50	2	362	91	43	70	125	H3	F05
65	2.5	362	108	46	76	143.5	103	F05
80	3	362	124	46	94	151	103	F05
100	4	362	150	52	108	172	103	F07
125	5	362	178	56	127	190	103	F07
150	6	362	205	56	139	202	103	F07
200	8	232	260	60	175	235	103	F07
250	10	232	313	68	210	265	109	F10
300	12	232	364	78	238	285	109	F10

Grooved Butterfly Valve with Tamper Switch

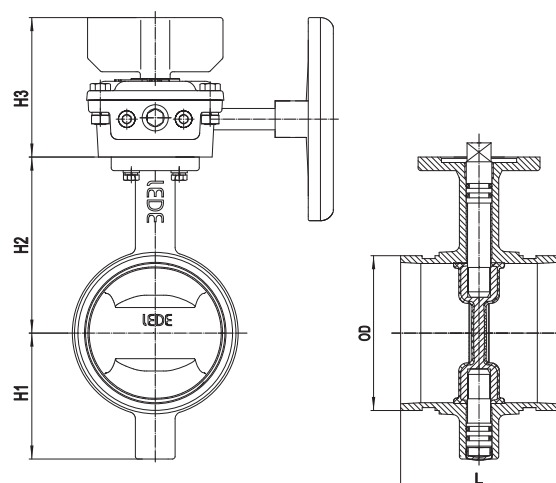
Model No. XD381X



Name of parts	Material
Body	Ductile iron
Plug	EPDM
Driven shaft	1Cr17Ni2
Disc	Ductile iron and EPDM
Actuating shaft	1Cr17Ni2
Bearing bush	Bronze
O-rings	EPDM
Gear operator	Ductile iron and steel

Technical data >

- Size: DN50~DN200
- Working pressure: DN50~DN150 362psi, DN200 232psi
- Valve standard: MSS SP-67
- Grooved standard: AWWA C606
- Top Flange standard: EN ISO 5211
- Temperature range: 0~80 °C
- Suitable for indoor and outdoor use



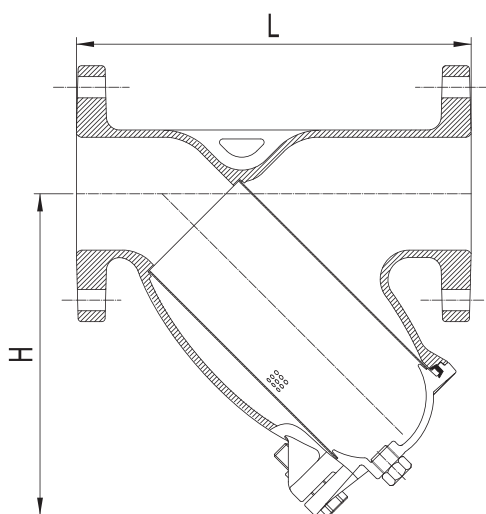
Dimensions		Pressure rating	Size (mm)					
DN	inch		OD	L	H1	H2	H3	Top Flange
50	2	362	60.3	81	56	91	103	F05
65	2.5	362	73	96.8	68	104	103	F05
			76.1					
80	3	362	88.9	96.8	75	111	103	F07
100	4	362	114.3	115.8	93	130	103	F07
125	5	362	139.7	147.6	111	153	103	F07
			141.3		111	153		
150	6	362	165.1	147.6	123	165	103	F07
			168.3		123	165		
200	8	232	219.1	133.4	160	194	109	F07

Flanged Y Strainer

Model No. 6101



Name of parts	Material
Body	Ductile iron
Cover	Ductile iron
Gasket	EPDM
Screen	SS304
Plug	Bronze

**Technical data** >

- Sizes: 2"~12"
- Working pressure: 300psi
- Flange standard: ASME-B16.1 Class125
- Temperature range: 0 ~ 80 °C

Dimensions		Pressure rating	Size (mm)		
DN	inch	psi	ΦD	L	H
50	2	300	152	230	154
65	2.5	300	178	290	201
80	3	300	191	310	210
100	4	300	229	350	269
125	5	300	254	400	320
150	6	300	279	480	357
200	8	300	343	550	442
250	10	300	406	650	525
300	12	300	483	750	620



KIRMARY Company

for engineering supplies

import & export

Trading agencies

LEDE[®]

SHANDONG LEDE MACHINERY CO., LTD.



International certificates UL.FM

Gate Valves

COMPANY

SHANDONG LEDE MACHINERY CO LTD

No 3998
West Waihuan N Rd
Weicheng District
Weifang, Shandong Sheng 261057 China

EX26407

Trademark and/or Tradename: **LEDE** , / **LEDE** , **PREM** , **ONTOR**

Note: For additional marking information, refer to the [Guide Information Page](#).

View model for additional information

Model(s): [1110](#), [1111](#), [1112](#), [1113](#), [1210](#), [1211](#), [Z41X-01-1.6](#), [Z41X-01-2.5](#), [Z41X-02-1.6](#), [Z41X-02-2.5](#), [Z41X-03-175](#), [Z41X-03-300](#), [Z45X-01-1.6](#), [Z45X-01-2.5](#), [Z45X-02-1.6](#), [Z45X-02-2.5](#), [Z45X-03-175](#), [Z45X-03-300](#), [Z45X-04-175](#), [Z45X-04-300](#), [Z81X-2.5](#), [Z85X-2.5](#)

Last Updated on 2023-05-23

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Model 1210

File Number: EX26407

COMPANY

SHANDONG LEDE MACHINERY CO LTD

No 3998
West Waihuan N Rd
Weicheng District
Weifang, Shandong Sheng 261057 China

MODEL INFO

1210

GENERAL			
Pattern	Size, in.	End Configuration	Rated Pressure, psig (kPa)
NRS	2, 2-1/2, 3, 4, 5, 6, 8, 10, 12	F by F	300 (2068)



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Model 1211

File Number: EX26407

COMPANY

SHANDONG LEDE MACHINERY CO LTD

No 3998
West Waihuan N Rd
Weicheng District
Weifang, Shandong Sheng 261057 China

MODEL INFO

1211

GENERAL			
Pattern	Size, in.	End Configuration	Rated Pressure, psig (kPa)
NRS	2, 2-1/2, 3, 4, 5, 6, 8, 10, 12	G by G	365 (2516)



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Model Z45X-04-175

File Number: EX26407

COMPANY

SHANDONG LEDE MACHINERY CO LTD
No 3998
West Waihuan N Rd
Weicheng District
Weifang, Shandong Sheng 261057 China

MODEL INFO

Z45X-04-175

GENERAL			
Pattern	Size, in.	End Configuration	Rated Pressure, psig (kPa)
NRS	4, 5, 6, 8, 10, 12	F by F	175 (1206)



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Model Z45X-04-300

File Number: EX26407

COMPANY

SHANDONG LEDE MACHINERY CO LTD
No 3998
West Waihuan N Rd
Weicheng District
Weifang, Shandong Sheng 261057 China

MODEL INFO

Z45X-04-300

GENERAL			
Pattern	Size, in.	End Configuration	Rated Pressure, psig (kPa)
NRS	4, 5, 6, 8, 10, 12	F by F	300 (2068)



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Check Valves

COMPANY

SHANDONG LEDE MACHINERY CO LTD

No 3998

West Waihuan N Rd

Weicheng District

Weifang, Shandong Sheng 261057 China

EX27050

Trademark and/or Tradename:

LEDE , / **LEDE** , **PREM** , **ONTOR**

Note: For additional marking information, refer to the [Guide Information Page](#).

View model for additional information

Swing, Model(s): [H44X](#), [H44X-01](#), [H44X-1.6](#), [H84X](#)

Last Updated on 2023-05-23

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Model H44X

File Number: EX27050

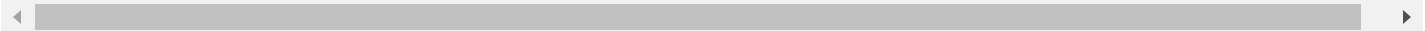
COMPANY

SHANDONG LEDE MACHINERY CO LTD
No 3998
West Waihuan N Rd
Weicheng District
Weifang, Shandong Sheng 261057 China

MODEL INFO

H44X
Swing

ATTRIBUTES AND RATINGS				
Valve Seat Facing	Nom Pipe Size, NPS	End Configuration	Rated Pressure, psig (kPa)	Installation Position
Elastomeric	2, 2-1/2, 3, 4, 5, 6, 8, 10, 12	Flange by Flange	300 (2068)	Horizontal, Vertical



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Model H84X

File Number: EX27050

COMPANY

SHANDONG LEDE MACHINERY CO LTD

No 3998
West Waihuan N Rd
Weicheng District
Weifang, Shandong Sheng 261057 China

MODEL INFO

H84X

Swing

ATTRIBUTES AND RATINGS				
Valve Seat Facing	Nom Pipe Size, NPS	End Configuration	Rated Pressure, psig (kPa)	Installation Position
Elastomeric	2, 2-1/2, 76.1 mm, 3, 4, 5, 139.7 mm, 6, 165.1 mm, 8, 10, 12	Groove by Groove	365 (2516)	Horizontal, Vertical



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Butterfly Valves

COMPANY

SHANDONG LEDE MACHINERY CO LTD

No 3998

West Waihuan N Rd

Weicheng District

Weifang, Shandong Sheng 261057 China

EX26457

Trademark and/or Tradename:

LEDE , / **LEDE** , **PREM** , **ONTOR**

Note: For additional marking information, refer to the [Guide Information Page](#).

View model for additional information

Butterfly Valve, Model(s): [2302](#), [2402](#), [XD371X](#), [XD381X](#)

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Model XD371X

File Number: EX26457

COMPANY

SHANDONG LEDE MACHINERY CO LTD

No 3998
West Waihuan N Rd
Weicheng District
Weifang, Shandong Sheng 261057 China

MODEL INFO

XD371X

Butterfly Valve

ATTRIBUTES AND RATINGS				
Size, NPS	End Configuration	Pressure Rating, psig (kPa)	Indicator Post	Supervisory Tamper Switch
2, 2-1/2, 3, 4, 5, 6	Wafer	362 (2495)	No	Indoor installation, Outdoor installation
8, 10, 12	Wafer	232 (1599)	No	Indoor installation, Outdoor installation



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Model XD381X

File Number: EX26457

COMPANY

SHANDONG LEDE MACHINERY CO LTD
No 3998
West Waihuan N Rd
Weicheng District
Weifang, Shandong Sheng 261057 China

MODEL INFO

XD381X
Butterfly Valve

ATTRIBUTES AND RATINGS				
Size, NPS	End Configuration	Pressure Rating, psig (kPa)	Indicator Post	Supervisory Tamper Switch
2, 2-1/2, 3, 4, 5, 139.7 mm, 6, 165.1 mm	Groove	362 (2495)	No	Indoor installation, Outdoor installation
8	Groove	232 (1599)	No	Indoor installation, Outdoor installation



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Strainers, Pipeline

COMPANY

SHANDONG LEDE MACHINERY CO LTD

No 3998

West Waihuan N Rd

Weicheng District

Weifang, Shandong Sheng 261057 China

EX27282

Trademark and/or Tradename: "ONTOR" , 

Note: For additional marking information, refer to the [Guide Information Page](#).

View model for additional information

Y-Type, Model(s): [6101](#), [6102](#), [6103](#)

Last Updated on 2023-05-23

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Model 6101

File Number: EX27282

COMPANY

SHANDONG LEDE MACHINERY CO LTD

No 3998
West Waihuan N Rd
Weicheng District
Weifang, Shandong Sheng 261057 China

MODEL INFO

6101

Y-Type

PRODUCT DETAILS

End-configuration	Size, NPS	Rated Pressure, psi (kPa)	Approximate Loss of Head at 15 ft/sec (4.6 m/sec) flow velocity
Flange by Flange	2 in.	300 (2068)	Less than 3 psi (21 kPa)
Flange by Flange	2.5 in.	300 (2068)	Less than 3 psi (21 kPa)
Flange by Flange	3 in.	300 (2068)	Less than 3 psi (21 kPa)
Flange by Flange	4 in.	300 (2068)	Less than 3 psi (21 kPa)
Flange by Flange	5 in.	300 (2068)	Less than 3 psi (21 kPa)
Flange by Flange	6 in.	300 (2068)	Less than 3 psi (21 kPa)
Flange by Flange	8 in.	300 (2068)	Less than 3 psi (21 kPa)

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Valves | Water Control Valves (OS&Y and NRS Gate Valves) | **Gate Valves, Outside Screw and Yoke**

Model 1210

Product Description

Resilient Seated Gate Valves. 2 through 12 inch NPS. Available with the following end connections and rated working pressure:

Product Specification

Model No	Valve Size		Rated Working Pressure		End Connection
	in	(mm)	psi	(kPa)	
1210	2, 2 1/2, 3, 4, 5, 6, 8, 10, 12	(50, 65, 80, 100, 125, 150, 200, 250, 300)	300	(2065)	Flange x Flange (ANSI)

Details

Category	Gate Valves, Outside Screw and Yoke
Class of Work	1120 - OS&Y and NRS Gate Valves
Approval Standard	FM 1120, 1130 - Fire Service Water Control Valves (OS&Y and NRS Type Gate Valves)
Certification Type	FM Approved
Listing Country	China

Company

Shandong Lede Machinery Co. Ltd.

No. 3998 West Weihuan N Rd,
Weicheng Dist, Weifang City,
Shandong 261057, China

<http://wflede.com>



Valves | Water Control Valves (OS&Y and NRS Gate Valves) | **Gate Valves, Outside Screw and Yoke**

Model 1211

Product Description

Resilient Seated Gate Valves. 3 through 12 inch NPS. Available with the following end connections and rated working pressure:

Product Specification

Model No	Valve Size		Rated Working Pressure		End Connection
	in	(mm)	psi	(kPa)	
1211	3, 4, 5, 6, 8, 10, 12	(80, 100, 125, 150, 200, 250, 300)	362	(2495)	Groove x Groove (AWWA)

Details

Category	Gate Valves, Outside Screw and Yoke
Class of Work	1120 - OS&Y and NRS Gate Valves
Approval Standard	FM 1120, 1130 - Fire Service Water Control Valves (OS&Y and NRS Type Gate Valves)
Certification Type	FM Approved
Listing Country	China

Company

Shandong Lede Machinery Co. Ltd.

No. 3998 West Weihuan N Rd,
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Valves | Single Check Valves | **Check Valves, Single**

Models H84X, H44X, H44X-01 and H44X-1.6

Product Description

Product Specification

Model No	Description	Valve Size		Rated Working Pressure		Remarks
		in	(mm)	psi	(kPa)	
Model H84X	Swing Check Valve, Grooved Ends	2, 2 1/2, 3, 4, 5, 6, 8, 10, 12	(50, 65, 80, 100, 125, 150, 200, 250, 300, 76.1, 139.7, 165.1)	365	(2515)	a, b
Model H44X	Swing Check Valve, Flanged Ends	2, 2 1/2, 3, 4, 5, 6, 8, 10, 12	(50, 65, 80, 100, 125, 150, 200, 250, 300)	300	(2065)	a, b
Model H44X-01	Swing Check Valve, Flanged Ends	2, 2 1/2, 3, 4, 5, 6, 8, 10, 12	(50, 65, 80, 100, 125, 150, 200, 250, 300)	300	(2065)	a, b
Model H44X-1.6	Swing Check Valve, Flanged Ends	2, 2 1/2, 3, 4, 5, 6, 8, 10, 12	(50, 65, 80, 100, 125, 150, 200, 250, 300)	300	(2065)	a, b, c

Remarks:

- a. For use in horizontal and vertical installations.
- b. Resilient seat.
- c. Flanged end connections conform to EN1092-2.



Details

Category	Check Valves, Single
Class of Work	1210 - Single Check Valves
Approval Standard	FM 1210 - Swing Check Valves
Certification Type	FM Approved
Listing Country	China

Company

Shandong Lede Machinery Co. Ltd.

No. 3998 West Weihuan N Rd,
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Valves | Water Control Valves (OS&Y and NRS Gate Valves) | **Gate Valves, Outside Screw and Yoke**

Model Z41X-03-175

Product Description

Resilient Seated Gate Valves. 2 through 12 inch NPS. Available with the following end connections and rated working pressure:

Product Specification

Model No	Valve Size		Rated Working Pressure		End Connection
	in	(mm)	psi	(kPa)	
Z41X-03-175	2, 2 1/2, 3, 4, 5, 6, 8, 10, 12	(50, 65, 80, 100, 125, 150, 200, 250, 300)	175	(1205)	Flange x Flange (ANSI)

Details

Category	Gate Valves, Outside Screw and Yoke
Class of Work	1120 - OS&Y and NRS Gate Valves
Approval Standard	FM 1120, 1130 - Fire Service Water Control Valves (OS&Y and NRS Type Gate Valves)
Certification Type	FM Approved
Listing Country	China

Company

Shandong Lede Machinery Co. Ltd.

No. 3998 West Weihuan N Rd,
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Shandong 261057, China

<http://wflede.com>



Valves | Water Control Valves (OS&Y and NRS Gate Valves) | **Gate Valves, Outside Screw and Yoke**

Model Z41X-03-300

Product Description

Resilient Seated Gate Valves. 2 through 12 inch NPS. Available with the following end connections and rated working pressure:

Product Specification

Model No	Valve Size		Rated Working Pressure		End Connection
	in	(mm)	psi	(kPa)	
Z41X-03-300	2, 2 1/2, 3, 4, 5, 6, 8, 10, 12	(50, 65, 80, 100, 125, 150, 200, 250, 300)	300	(2065)	Flange x Flange (ANSI)

Details

Category	Gate Valves, Outside Screw and Yoke
Class of Work	1120 - OS&Y and NRS Gate Valves
Approval Standard	FM 1120, 1130 - Fire Service Water Control Valves (OS&Y and NRS Type Gate Valves)
Certification Type	FM Approved
Listing Country	China

Company

Shandong Lede Machinery Co. Ltd.

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Valves | Water Control Valves (OS&Y and NRS Gate Valves) | **Gate Valves, Outside Screw and Yoke**

Model Z41X-01-1.6, Z41X-02-1.6

Product Description

Resilient Seated Gate Valves. 2 through 12 inch NPS. Available with the following end connections and rated working pressure:

Product Specification

Model No	Valve Size		Rated Working Pressure		End Connection
	in	(mm)	psi	(kPa)	
Z41X-01-1.6	2, 2 1/2, 3, 4, 5, 6, 8, 10, 12	(50, 65, 80, 100, 125, 150, 200, 250, 300)	232	(1595)	Flange x Flange (EN)
Z41X-02-1.6	2, 2 1/2, 3, 4, 5, 6, 8, 10, 12	(50, 65, 80, 100, 125, 150, 200, 250, 300)	232	(1595)	Flange x Flange (BS)

Details

Category	Gate Valves, Outside Screw and Yoke
Class of Work	1120 - OS&Y and NRS Gate Valves
Approval Standard	FM 1120, 1130 - Fire Service Water Control Valves (OS&Y and NRS Type Gate Valves)
Certification Type	FM Approved
Listing Country	China

Company

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Valves | Water Control Valves (OS&Y and NRS Gate Valves) | **Gate Valves, Outside Screw and Yoke**

Model Z41X-01-2.5, Z41X-02-2.5

Product Description

Resilient Seated Gate Valves. 2 through 12 inch NPS. Available with the following end connections and rated working pressure:

Product Specification

Model No	Valve Size		Rated Working Pressure		End Connection
	in	(mm)	psi	(kPa)	
Z41X-01-2.5	2, 2 1/2, 3, 4, 5, 6, 8, 10, 12	(50, 65, 80, 100, 125, 150, 200, 250, 300)	365	(2515)	Flange x Flange (EN)
Z41X-02-2.5	2, 2 1/2, 3, 4, 5, 6, 8, 10, 12	(50, 65, 80, 100, 125, 150, 200, 250, 300)	365	(2515)	Flange x Flange (BS)

Details

Category	Gate Valves, Outside Screw and Yoke
Class of Work	1120 - OS&Y and NRS Gate Valves
Approval Standard	FM 1120, 1130 - Fire Service Water Control Valves (OS&Y and NRS Type Gate Valves)
Certification Type	FM Approved
Listing Country	China

Company

Shandong Lede Machinery Co. Ltd.

No. 3998 West Weihuan N Rd,
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Valves | Water Control Valves (OS&Y and NRS Gate Valves) | **Gate Valves, Outside Screw and Yoke**

Model Z81X-2.5

Product Description

Resilient Seated Gate Valves. 2 through 8 inch NPS. Available with the following end connections and rated working pressure:

Product Specification

Model No	Valve Size		Rated Working Pressure		End Connection
	in	(mm)	psi	(kPa)	
Z81X-2.5	2, 2 1/2, 3, 4, 5, 6, 8	(50, 65, 80, 100, 125, 150, 200)	365	(2515)	Groove x Groove (GB, AWWA)

Details

Category	Gate Valves, Outside Screw and Yoke
Class of Work	1120 - OS&Y and NRS Gate Valves
Approval Standard	FM 1120, 1130 - Fire Service Water Control Valves (OS&Y and NRS Type Gate Valves)
Certification Type	FM Approved
Listing Country	China

Company

Shandong Lede Machinery Co. Ltd.

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Listing Sheet for Model Z41X, Z81X, 1210 and 1211Automatic Sprinkler Systems  Valves  Gate Valves  Outside Screw and Yoke Gate Valves**Model Z41X-150**

Resilient Seated Gate Valves. 2 through 12 inch NPS. Available with the following end connections and rated working pressure:

Model Name	Size, in. (mm)	Rated Working Pressure	End Connection
Z41X-150	2, 2-1/2, 3, 4, 5, 6, 8, 10, 12 (50, 65, 80, 100, 125, 150, 200, 250, 300)	175 psi (1205 kPa)	Flange x Flange (ANSI)

Model Z41X-300

Resilient Seated Gate Valves. 2 through 12 inch NPS. Available with the following end connections and rated working pressure:

Model Name	Size, in. (mm)	Rated Working Pressure	End Connection
Z41X-300	2, 2-1/2, 3, 4, 5, 6, 8, 10, 12 (50, 65, 80, 100, 125, 150, 200, 250, 300)	300 psi (2070 kPa)	Flange x Flange (ANSI)

Model Z41X-1.6

Resilient Seated Gate Valves. 2 through 12 inch NPS. Available with the following end connections and rated working pressure:

Model Name	Size, in. (mm)	Rated Working Pressure	End Connection
Z41X-1.6	2, 2-1/2, 3, 4, 5, 6, 8, 10, 12 (50, 65, 80, 100, 125, 150, 200, 250, 300)	232 psi (1600 kPa)	Flange x Flange (EN, BS, ISO)

Model Z41X-2.5

Resilient Seated Gate Valves. 2 through 12 inch NPS. Available with the following end connections and rated working pressure:

Model Name	Size, in. (mm)	Rated Working Pressure	End Connection
Z41X-2.5	2, 2-1/2, 3, 4, 5, 6, 8, 10, 12 (50, 65, 80, 100, 125, 150, 200, 250, 300)	365 psi (2500 kPa)	Flange x Flange (EN, BS, ISO)

Model Z81X-2.5

Resilient Seated Gate Valves. 2 through 8 inch NPS. Available with the following end connections and rated working pressure:

Model Name	Size, in. (mm)	Rated Working Pressure	End Connection
Z81X-2.5	2, 2-1/2, 3, 4, 5, 6, 8 (50, 65, 80, 100, 125, 150, 200)	365 psi (2500 kPa)	Groove x Groove (GB, AWWA)

Model 1210

Resilient Seated Gate Valves. 2 through 12 inch NPS. Available with the following end connections and rated working pressures:

Model Name	Size, in. (mm)	Rated Working Pressure	End Connection
1210	2, 2-1/2, 3, 4, 5, 6, 8, 10, 12 (50, 65, 80, 100, 125, 150, 200, 250, 300)	300 psi (2070 kPa)	Flange x Flange (ANSI)

Model 1211

Resilient Seated Gate Valves. 3 through 12 inch NPS. Available with the following end connections and rated working pressures:

Model Name	Size, in. (mm)	Rated Working Pressure	End Connection
1211	2, 2-1/2, 3, 4, 5, 6, 8, 10, 12 (50, 65, 80, 100, 125, 150, 200, 250, 300)	362 psi (2500 kPa)	Groove x Groove (AWWA)

Listing Sheet for Model Z45X, Z85X, 1110, 1112 and 1113Automatic Sprinkler Systems  Valves  Gate Valves  Inside Screw Gate Valves**Model Z45X-150**

Resilient Seated Gate Valves. 2 through 12 inch NPS. Available with the following end connections and rated working pressure:

Model Name	Size, in. (mm)	Rated Working Pressure	End Connection
Z45X-150	2, 2-1/2, 3, 4, 5, 6, 8, 10, 12 (50, 65, 80, 100, 125, 150, 200, 250, 300)	175 psi (1205 kPa)	Flange x Flange (ANSI)

Model Z45X-300

Resilient Seated Gate Valves. 2 through 12 inch NPS. Available with the following end connections and rated working pressure:

Model Name	Size, in. (mm)	Rated Working Pressure	End Connection
Z45X-300	2, 2-1/2, 3, 4, 5, 6, 8, 10, 12 (50, 65, 80, 100, 125, 150, 200, 250, 300)	300 psi (2070 kPa)	Flange x Flange (ANSI)

Model Z45X-1.6

Resilient Seated Gate Valves. 2 through 12 inch NPS. Available with the following end connections and rated working pressure:

Model Name	Size, in. (mm)	Rated Working Pressure	End Connection
Z45X-1.6	2, 2-1/2, 3, 4, 5, 6, 8, 10, 12 (50, 65, 80, 100, 125, 150, 200, 250, 300)	232 psi (1600 kPa)	Flange x Flange (EN, BS, ISO)

Model Z45X-2.5

Resilient Seated Gate Valves. 2 through 12 inch NPS. Available with the following end connections and rated working pressure:

Model Name	Size, in. (mm)	Rated Working Pressure	End Connection
Z45X-2.5	2, 2-1/2, 3, 4, 5, 6, 8, 10, 12 (50, 65, 80, 100, 125, 150, 200, 250, 300)	365 psi (2500 kPa)	Flange x Flange (EN, BS, ISO)

Model Z85X-2.5

Resilient Seated Gate Valves. 2 through 8 inch NPS. Available with the following end connections and rated working pressure:

Model Name	Size, in. (mm)	Rated Working Pressure	End Connection
Z85X-2.5	2, 2-1/2, 3, 4, 5, 6, 8 (50, 65, 80, 100, 125, 150, 200)	365 psi (2500 kPa)	Groove x Groove (GB, AWWA)

Model 1110

Resilient Seated Gate Valves. 2 through 12 inch NPS. Available with the following end connections and rated working pressures:

Model Name	Size, in. (mm)	Rated Working Pressure	End Connection
1110	2, 2-1/2, 3, 4, 5, 6, 8, 10, 12 (50, 65, 80, 100, 125, 150, 200, 250, 300)	300 psi (2070 kPa)	Flange x Flange (ANSI)

Model 1112

Resilient Seated Gate Valves. 3 through 12 inch NPS. Available with the following end connections and rated working pressures:

Model Name	Size, in. (mm)	Rated Working Pressure	End Connection
1112	3, 4, 6, 8, 10, 12 (80, 100, 150, 200, 250, 300)	362 psi (2500 kPa)	MJ

Model 1113

Resilient Seated Gate Valves. 4 through 12 inch NPS with Indicator Post Flange. Available with the following end connections and rated working pressures:

Model Name	Size, in. (mm)	Rated Working Pressure	End Connection
1113	4, 6, 8, 10, 12 (100, 150, 200, 250, 300)	362 psi (2500 kPa)	MJ

CDL Control Drawing Blueprint Report

Blueprint Report**Shandong Lede Machinery Co Ltd (113572)****Class No 1120****Original Project I.D. 3060255**

<u>Drawing No.</u>	<u>Revision Level</u>	<u>Drawing Title</u>	<u>Last Report</u>	<u>Electronic Drawing</u>
11-2000025-100-150-22	-	Wrench Nut DN100-DN150	3060255	Yes (pdf)
11-2000025-200-22	-	Wrench Nut DN200	3060255	Yes (pdf)
11-2000025-250-23	-	Indicator Post Flange DN250	3060255	Yes (pdf)
11-2000025-250-300-22	-	Wrench Nut DN250-DN300	3060255	Yes (pdf)
11-2000025-300-23	-	Indicator Post Flange DN300	3060255	Yes (pdf)
1110-Mark	-	1110-Mark	3060255	Yes (pdf)
1112-Mark	-	1112-Mark	3060255	Yes (pdf)
1113-Mark	-	1113-Mark	3060255	Yes (pdf)
1210-Mark	-	1210-Mark	3060255	Yes (pdf)
1211-Mark	-	1211-Mark	3060255	Yes (pdf)
17(MJ)-20000362-10"-00	-	Assembly AWWA 10" 362PSI MJ	3060255	Yes (pdf)
17(MJ)-20000362-10"-01	-	Body AWWA 10" 362PSI MJ	3060255	Yes (pdf)
17(MJ)-20000362-12"-00	-	Assembly AWWA 12" 362PSI MJ	3060255	Yes (pdf)
17(MJ)-20000362-12"-01	-	Body AWWA 12" 362PSI MJ	3060255	Yes (pdf)
17(MJ)-20000362-3"-00	-	Assembly AWWA 3" 362PSI MJ	3060255	Yes (pdf)
17(MJ)-20000362-3"-01	-	Body AWWA 3" 362PSI MJ	3060255	Yes (pdf)
17(MJ)-20000362-4"-00I	-	Assembly AWWA 4"362PSI MJ	3060255	Yes (pdf)
17(MJ)-20000362-4"-00	-	Assembly AWWA 4" 362PSI MJ	3060255	Yes (pdf)
17(MJ)-20000362-4"-01	-	Body AWWA 4" 362PSI MJ	3060255	Yes (pdf)
17(MJ)-20000362-6"-00I	-	Assembly AWWA 6" 362PSI MJ	3060255	Yes (pdf)
17(MJ)-20000362-6"-00	-	Assembly AWWA 6" 362PSI MJ	3060255	Yes (pdf)
17(MJ)-20000362-6"-01	-	Body AWWA 6" 362PSI MJ	3060255	Yes (pdf)
17(MJ)-20000362-8"-00	-	Assembly AWWA 8" 362PSI MJ	3060255	Yes (pdf)
17(MJ)-20000362-8"-01	-	Body AWWA 8" 362PSI MJ	3060255	Yes (pdf)
17(MJ)-20003362-10"-00I	-	Assembly AWWA 10" 362PSI MJ	3060255	Yes (pdf)
17(MJ)-20003362-12"-00I	-	Assembly AWWA 12" 362PSI MJ	3060255	Yes (pdf)
17(MJ)-20003362-8"-00I	-	Assembly AWWA 8" 362PSI MJ	3060255	Yes (pdf)
17-20003300-10"-00	-	Assembly AWWA 10" 300PSI	3060255	Yes (pdf)
17-20003300-10"-01	-	Body AWWA 10" 300PSI	3060255	Yes (pdf)
17-20003300-10"-21	-	Handwheel AWWA OD406	3060255	Yes (pdf)
17-20003300-12"-00	-	Assembly AWWA 12" 300PSI	3060255	Yes (pdf)
17-20003300-12"-01	-	Body AWWA 12" 300PSI	3060255	Yes (pdf)
17-20003300-2"-00	-	Assembly AWWA 2" 300PSI	3060255	Yes (pdf)
17-20003300-2"-01	-	Body AWWA 2" 300PSI	3060255	Yes (pdf)
17-20003300-2.5"-00	-	Assembly AWWA 2.5" 300PSI	3060255	Yes (pdf)
17-20003300-2.5"-01	-	Body AWWA 2.5" 300PSI	3060255	Yes (pdf)
17-20003300-2.5"-21	-	Handwheel AWWA OD178	3060255	Yes (pdf)
17-20003300-3"-00	-	Assembly AWWA 3" 300PSI	3060255	Yes (pdf)
17-20003300-3"-01	-	Body AWWA 3" 300PSI	3060255	Yes (pdf)
17-20003300-3"-06	-	Bonnet AWWA 3" 300PSI	3060255	Yes (pdf)
17-20003300-3"-09	-	Upper Cover AWWA 3" 300PSI	3060255	Yes (pdf)
17-20003300-3"-21	-	Handwheel AWWA OD178	3060255	Yes (pdf)

FM APPROVALS PROJECT NO: PR454628

17-20003300-4"-00	-	Assembly AWWA 4" 300PSI	3060255	Yes (pdf)
17-20003300-4"-01	-	Body AWWA 4" 300PSI	3060255	Yes (pdf)
17-20003300-4"-06	-	Bonnet AWWA 4" 300PSI	3060255	Yes (pdf)
17-20003300-4"-09	-	Upper Cover AWWA 4" 300PSI	3060255	Yes (pdf)
17-20003300-4"-21	-	Handwheel AWWA OD254	3060255	Yes (pdf)
17-20003300-5"-00	-	Assembly AWWA 5" 300PSI	3060255	Yes (pdf)
17-20003300-5"-01	-	Body AWWA 5" 300PSI	3060255	Yes (pdf)
17-20003300-5"-06	-	Bonnet AWWA 5" 300PSI	3060255	Yes (pdf)
17-20003300-6"-00	-	Assembly AWWA 6" 300PSI	3060255	Yes (pdf)
17-20003300-6"-01	-	Body AWWA 6" 300PSI	3060255	Yes (pdf)
17-20003300-6"-06	-	Bonnet AWWA 6" 300PSI	3060255	Yes (pdf)
17-20003300-6"-09	-	Upper Cover AWWA 6" 300PSI	3060255	Yes (pdf)
17-20003300-6"-21	-	Handwheel AWWA OD305	3060255	Yes (pdf)
17-20003300-8"-00	-	Assembly AWWA 8" 300PSI	3060255	Yes (pdf)
17-20003300-8"-01	-	Body AWWA 8" 300PSI	3060255	Yes (pdf)
17-20003300-8"-09	-	Upper Cover AWWA 8" 300PSI	3060255	Yes (pdf)
17-20003300-8"-21	-	Handwheel AWWA OD356	3060255	Yes (pdf)
17-20003362-4"-23	-	Indicator Post Flange 4"	3060255	Yes (pdf)
17-20003362-6"-22	-	Wrench Nut 6"	3060255	Yes (pdf)
17-20003362-6"-23	-	Indicator Post Flange 6"	3060255	Yes (pdf)
17-20003362-8"-23	-	Indicator Post Flange 8"	3060255	Yes (pdf)
17-60003300-10"-04	-	Stem AWWA 10" 300PSI	3060255	Yes (pdf)
17-60003300-12"-04	-	Stem AWWA 12" 300PSI	3060255	Yes (pdf)
17-60003300-2.5"-04	-	Stem AWWA 2.5" 300PSI	3060255	Yes (pdf)
17-60003300-3"-04	-	Stem AWWA 3" 300PSI	3060255	Yes (pdf)
17-60003300-4"-04	-	Stem AWWA 4" 300PSI	3060255	Yes (pdf)
17-60003300-5"-04	-	Stem AWWA 5" 300PSI	3060255	Yes (pdf)
17-60003300-6"-04	-	Stem AWWA 6" 300PSI	3060255	Yes (pdf)
17-60003300-8"-04	-	Stem AWWA 8" 300PSI	3060255	Yes (pdf)
17-70003300-10"-03	-	Stem nut AWWA 10" 300PSI	3060255	Yes (pdf)
17-70003300-12"-03	-	Stem nut AWWA 12" 300PSI	3060255	Yes (pdf)
17-70003300-2.5"-03	-	Stem nut AWWA 2.5" 300PSI	3060255	Yes (pdf)
17-70003300-3"-03	-	Stem nut AWWA 3" 300PSI	3060255	Yes (pdf)
17-70003300-4"-03	-	Stem nut AWWA 4" 300PSI	3060255	Yes (pdf)
17-70003300-4"-08	-	Sliding disc AWWA 4" 300PSI	3060255	Yes (pdf)
17-70003300-5"-03	-	Stem nut AWWA 5" 300PSI	3060255	Yes (pdf)
17-70003300-6"-03	-	Stem nut AWWA 6" 300PSI	3060255	Yes (pdf)
17-70003300-6"-08	-	Sliding disc AWWA 6" 300PSI	3060255	Yes (pdf)
17-70003300-8"-03	-	Stem nut AWWA 8" 300PSI	3060255	Yes (pdf)
17-80003300-3"-02	-	Wedge AWWA 3" 300PSI	3060255	Yes (pdf)
17-80003300-4"-02	-	Wedge AWWA 4" 300PSI	3060255	Yes (pdf)
17-80003300-4"-07	-	Sealing ring AWWA 4" 300PSI	3060255	Yes (pdf)
17-80003300-6"-02	-	Wedge AWWA 6" 300PSI	3060255	Yes (pdf)
17-80003300-6"-07	-	Sealing ring AWWA 6" 300PSI	3060255	Yes (pdf)
17-80003300-8"-07	-	Sealing ring AWWA 8" 300PSI	3060255	Yes (pdf)
17G-20003362-10"(273)-01	-	Body AWWA 10"-273 362PSI	3060255	Yes (pdf)
17G-20003362-12"(323.9)-01	-	Body AWWA 12"-323.9 362PSI	3060255	Yes (pdf)
17G-20003362-2"(60)-01	-	Body AWWA 2"-60 362PSI	3060255	Yes (pdf)
17G-20003362-2.5"(73)-01	-	Body AWWA 2.5"-73 362PSI	3060255	Yes (pdf)
17G-20003362-3"(88.9)-01	-	Body AWWA 3"-88.9 362PSI	3060255	Yes (pdf)
17G-20003362-4"(114)-01	-	Body AWWA 4"-114 362PSI	3060255	Yes (pdf)
17G-20003362-5"(141)-01	-	Body AWWA 5"-141 362PSI	3060255	Yes (pdf)

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17G-20003362-6"(168)-01	-	Body AWWA 6"-168 362PSI	3060255	Yes (pdf)
17G-20003362-8"(219)-01	-	Body AWWA 8"-219 362PSI	3060255	Yes (pdf)
18-20003300-10"-00	-	Assembly AWWA 10" 300PSI	3060255	Yes (pdf)
18-20003300-10"-06	-	Bonnet AWWA 10" 300PSI	3060255	Yes (pdf)
18-20003300-10"-10	-	Gland AWWA 10" 300PSI	3060255	Yes (pdf)
18-20003300-10"-21	-	Handwheel AWWA OD406	3060255	Yes (pdf)
18-20003300-12"-00	-	Assembly AWWA 12" 300PSI	3060255	Yes (pdf)
18-20003300-12"-06	-	Bonnet AWWA 12" 300PSI	3060255	Yes (pdf)
18-20003300-2"-00	-	Assembly AWWA 2" 300PSI	3060255	Yes (pdf)
18-20003300-2.5"-00	-	Assembly AWWA 2.5" 300PSI	3060255	Yes (pdf)
18-20003300-2.5"-06	-	Bonnet AWWA 2.5" 300PSI	3060255	Yes (pdf)
18-20003300-2.5"-10	-	Gland AWWA 2.5" 300PSI	3060255	Yes (pdf)
18-20003300-2.5"-21	-	Handwheel AWWA OD178	3060255	Yes (pdf)
18-20003300-3"-00	-	Assembly AWWA 3" 300PSI	3060255	Yes (pdf)
18-20003300-3"-06	-	Bonnet AWWA 3" 300PSI	3060255	Yes (pdf)
18-20003300-3"-10	-	Gland AWWA 3" 300PSI	3060255	Yes (pdf)
18-20003300-3"-21	-	Handwheel AWWA OD178	3060255	Yes (pdf)
18-20003300-4"-00	-	Assembly AWWA 4" 300PSI	3060255	Yes (pdf)
18-20003300-4"-06	-	Bonnet AWWA 4" 300PSI	3060255	Yes (pdf)
18-20003300-4"-10	-	Gland AWWA 4" 300PSI	3060255	Yes (pdf)
18-20003300-4"-21	-	Handwheel AWWA OD254	3060255	Yes (pdf)
18-20003300-5"-00	-	Assembly AWWA 5" 300PSI	3060255	Yes (pdf)
18-20003300-5"-06	-	Bonnet AWWA 5" 300PSI	3060255	Yes (pdf)
18-20003300-6"-00	-	Assembly AWWA 6" 300PSI	3060255	Yes (pdf)
18-20003300-6"-06	-	Bonnet AWWA 6" 300PSI	3060255	Yes (pdf)
18-20003300-6"-10	-	Gland AWWA 6" 300PSI	3060255	Yes (pdf)
18-20003300-6"-21	-	Handwheel AWWA OD305	3060255	Yes (pdf)
18-20003300-8"-00	-	Assembly AWWA 8" 300PSI	3060255	Yes (pdf)
18-20003300-8"-06	-	Bonnet AWWA 8" 300PSI	3060255	Yes (pdf)
18-20003300-8"-10	-	Gland AWWA 8" 300PSI	3060255	Yes (pdf)
18-20003300-8"-21	-	Handwheel AWWA OD356	3060255	Yes (pdf)
18-60003300-10"-04	-	Stem AWWA 10" 300PSI	3060255	Yes (pdf)
18-60003300-12"-04	-	Stem AWWA 12" 300PSI	3060255	Yes (pdf)
18-60003300-2.5"-04	-	Stem AWWA 2.5" 300PSI	3060255	Yes (pdf)
18-60003300-3"-04	-	Stem AWWA 3" 300PSI	3060255	Yes (pdf)
18-60003300-4"-04	-	Stem AWWA 4" 300PSI	3060255	Yes (pdf)
18-60003300-5"-04	-	Stem AWWA 5" 300PSI	3060255	Yes (pdf)
18-60003300-6"-04	-	Stem AWWA 6" 300PSI	3060255	Yes (pdf)
18-60003300-8"-04	-	Stem AWWA 8" 300PSI	3060255	Yes (pdf)
18-70003300-10"-03	-	Stem Nut AWWA 10" 300PSI	3060255	Yes (pdf)
18-70003300-10"-07	-	Handwheel Nut AWWA 10" 300PSI	3060255	Yes (pdf)
18-70003300-10"-08	-	Upside Sliding disc AWWA 10" 300PSI	3060255	Yes (pdf)
18-70003300-10"-09	-	Underside Sliding disc AWWA 10" 300PSI	3060255	Yes (pdf)
18-70003300-2.5"-03	-	Stem Nut AWWA 2.5" 300PSI	3060255	Yes (pdf)
18-70003300-2.5"-07	-	Handwheel Nut AWWA 2.5" 300PSI	3060255	Yes (pdf)
18-70003300-2.5"-08	-	Upside Sliding disc AWWA 2.5" 300PSI	3060255	Yes (pdf)
18-70003300-2.5"-09	-	Underside Sliding disc AWWA 2.5" 300PSI	3060255	Yes (pdf)
18-70003300-3"-03	-	Stem Nut AWWA 3" 300PSI	3060255	Yes (pdf)
18-70003300-3"-07	-	Handwheel Nut AWWA 3" 300PSI	3060255	Yes (pdf)
18-70003300-3"-08	-	Upside Sliding disc AWWA 3" 300PSI	3060255	Yes (pdf)
18-70003300-3"-09	-	Underside Sliding disc AWWA 3" 300PSI	3060255	Yes (pdf)
18-70003300-4"-03	-	Stem Nut AWWA 4" 300PSI	3060255	Yes (pdf)

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18-70003300-4"-07	-	Handwheel Nut AWWA 4" 300PSI	3060255	Yes (pdf)
18-70003300-4"-08	-	Upside Sliding disc AWWA 4" 300PSI	3060255	Yes (pdf)
18-70003300-4"-09	-	Underside Sliding disc AWWA AWWA 4" 300PSI	3060255	Yes (pdf)
18-70003300-6"-03	-	Stem Nut AWWA 6" 300PSI	3060255	Yes (pdf)
18-70003300-6"-07	-	Handwheel Nut AWWA 6" 300PSI	3060255	Yes (pdf)
18-80003300-10"-07	-	Sealing ring AWWA 10" 300PSI	3060255	Yes (pdf)
18-80003300-2.5"-07	-	Sealing ring AWWA 2.5" 300PSI	3060255	Yes (pdf)
18-80003300-3"-07	-	Sealing ring AWWA 3" 300PSI	3060255	Yes (pdf)
18-80003300-4"-07	-	Sealing ring AWWA 4" 300PSI	3060255	Yes (pdf)
18-80003300-6"-07	-	Sealing ring AWWA 6" 300PSI	3060255	Yes (pdf)
18-80003300-8"-07	-	Sealing ring AWWA 8" 300PSI	3060255	Yes (pdf)
18G-20003362-10"(273)-00	-	Assembly AWWA 10"-273 362PSI	3060255	Yes (pdf)
18G-20003362-12"(323.9)-00	-	Assembly AWWA 12"-323.9 362PSI	3060255	Yes (pdf)
18G-20003362-2"(60)-00	-	Assembly AWWA 2"-60 362PSI	3060255	Yes (pdf)
18G-20003362-2.5"(73)-00	-	Assembly AWWA 2.5"-73 362PSI	3060255	Yes (pdf)
18G-20003362-3"(88.9)-00	-	Assembly AWWA 3"-88.9 362PSI	3060255	Yes (pdf)
18G-20003362-4"(114)-00	-	Assembly AWWA 4"-114 362PSI	3060255	Yes (pdf)
18G-20003362-5"(141)-00	-	Assembly AWWA 5"-141 362PSI	3060255	Yes (pdf)
18G-20003362-6"(168)-00	-	Assembly AWWA 6"-168 362PSI	3060255	Yes (pdf)
18G-20003362-8"(219)-00	-	Assembly AWWA 8"-219 362PSI	3060255	Yes (pdf)

Blueprint Report

Shandong Lede Machinery Co Ltd (113572)

Class No 1120**Original Project I.D. 3051487**

<u>Drawing No.</u>	<u>Revision Level</u>	<u>Drawing Title</u>	<u>Last Report</u>	<u>Electronic Drawing</u>
11-2000025-100-150-22	-	Wrench Nut DN100-DN150	3051487	Yes (pdf)
11-2000025-100-23	-	Indicator Post Flange	3051487	Yes (pdf)
11-2000025-125-150-23	-	Indicator Post Flange	3051487	Yes (pdf)
11-2000025-200-22	-	Wrench Nut DN200	3051487	Yes (pdf)
11-2000025-200-23	-	Indicator Post Flange	3051487	Yes (pdf)
11-2000025-250-23	-	Indicator Post Flange	3051487	Yes (pdf)
11-2000025-250-300-22	-	Wrench Nut DN250-DN300	3051487	Yes (pdf)
11-2000025-300-23	-	Indicator Post Flange	3051487	Yes (pdf)
11-2000025-50-80-22	-	Wrench Nut DN50-DN80	3051487	Yes (pdf)
11-20003150-100-00I	-	Assembly DN100	3051487	Yes (pdf)
11-20003150-100-00	-	Assembly DN100	3051487	Yes (pdf)
11-20003150-100-01	-	Body AWWA DN100 Class150	3051487	Yes (pdf)
11-20003150-100-300-00IM	-	Z45X-04-175 Marking	3051487	Yes (pdf)
11-20003150-125-00I	-	Assembly DN125	3051487	Yes (pdf)
11-20003150-125-00	-	Assembly DN125	3051487	Yes (pdf)
11-20003150-125-01	-	Body AWWA DN125 Class150	3051487	Yes (pdf)
11-20003150-150-00I	-	Assembly DN150	3051487	Yes (pdf)
11-20003150-150-00	-	Assembly DN150	3051487	Yes (pdf)
11-20003150-150-01	-	Body AWWA DN150 Class150	3051487	Yes (pdf)
11-20003150-200-00I	-	Assembly DN200	3051487	Yes (pdf)
11-20003150-200-00	-	Assembly DN200	3051487	Yes (pdf)
11-20003150-200-01	-	Body AWWA DN200 Class150	3051487	Yes (pdf)
11-20003150-250-00I	-	Assembly DN250	3051487	Yes (pdf)
11-20003150-250-00	-	Assembly DN250	3051487	Yes (pdf)
11-20003150-250-01	-	Body AWWA DN250 Class150	3051487	Yes (pdf)
11-20003150-300-00I	-	Assembly DN300	3051487	Yes (pdf)
11-20003150-300-00	-	Assembly DN300	3051487	Yes (pdf)
11-20003150-300-01	-	Body AWWA DN300 Class150	3051487	Yes (pdf)
11-20003150-50-00	-	Assembly DN50	3051487	Yes (pdf)
11-20003150-50-01	-	Body DN50 Class150	3051487	Yes (pdf)
11-20003150-50-300-00M	-	Z45X-03-175 Marking	3051487	Yes (pdf)
11-20003150-65-00	-	Assembly DN65	3051487	Yes (pdf)
11-20003150-65-01	-	Body AWWA DN65 Class150	3051487	Yes (pdf)
11-20003150-80-00	-	Assembly DN80	3051487	Yes (pdf)
11-20003150-80-01	-	Body AWWA DN80 Class150	3051487	Yes (pdf)
11-2000316-100-00	-	Assembly DN100	3051487	Yes (pdf)
11-2000316-100-01	-	Body DN100	3051487	Yes (pdf)
11-2000316-125-00	-	Assembly DN125	3051487	Yes (pdf)
11-2000316-125-01	-	Body DN125	3051487	Yes (pdf)
11-2000316-150-00	-	Assembly DN150	3051487	Yes (pdf)
11-2000316-150-01	-	Body DN150	3051487	Yes (pdf)
11-2000316-200-00	-	Assembly DN200	3051487	Yes (pdf)
11-2000316-200-01	-	Body DN200	3051487	Yes (pdf)
11-2000316-250-00	-	Assembly DN250	3051487	Yes (pdf)

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11-2000316-250-01	-	Body DN250	3051487	Yes (pdf)
11-2000316-300-00	-	Assembly DN300	3051487	Yes (pdf)
11-2000316-300-01	-	Body DN300	3051487	Yes (pdf)
11-2000316-50-00	-	Assembly DN50	3051487	Yes (pdf)
11-2000316-50-01	-	Body DN50	3051487	Yes (pdf)
11-2000316-50-300-00M	-	Z45X-02-1.6 Marking	3051487	Yes (pdf)
11-2000316-65-00	-	Assembly DN65	3051487	Yes (pdf)
11-2000316-65-01	-	Body DN65	3051487	Yes (pdf)
11-2000316-80-00	-	Assembly DN80	3051487	Yes (pdf)
11-2000316-80-01	-	Body DN80	3051487	Yes (pdf)
11-20003300-100-00I	-	Assembly DN100	3051487	Yes (pdf)
11-20003300-100-00	-	Assembly DN100	3051487	Yes (pdf)
11-20003300-100-01	-	Body AWWA DN100 Class300	3051487	Yes (pdf)
11-20003300-100-300-00IM	-	Z45X-04-300 Marking	3051487	Yes (pdf)
11-20003300-125-00I	-	Assembly DN125	3051487	Yes (pdf)
11-20003300-125-00	-	Assembly DN125	3051487	Yes (pdf)
11-20003300-125-01	-	Body AWWA DN125 Class300	3051487	Yes (pdf)
11-20003300-150-00I	-	Assembly DN150	3051487	Yes (pdf)
11-20003300-150-00	-	Assembly DN150	3051487	Yes (pdf)
11-20003300-150-01	-	Body AWWA DN150 Class300	3051487	Yes (pdf)
11-20003300-200-00I	-	Assembly DN200	3051487	Yes (pdf)
11-20003300-200-00	-	Assembly DN200	3051487	Yes (pdf)
11-20003300-200-01	-	Body AWWA DN200 Class300	3051487	Yes (pdf)
11-20003300-250-00I	-	Assembly DN250	3051487	Yes (pdf)
11-20003300-250-00	-	Assembly DN250	3051487	Yes (pdf)
11-20003300-250-01	-	Body AWWA DN250 Class300	3051487	Yes (pdf)
11-20003300-300-00I	-	Assembly DN300	3051487	Yes (pdf)
11-20003300-300-00	-	Assembly DN300	3051487	Yes (pdf)
11-20003300-300-01	-	Body AWWA DN300 Class300	3051487	Yes (pdf)
11-20003300-50-00	-	Assembly DN50	3051487	Yes (pdf)
11-20003300-50-01	-	Body DN50 Class300	3051487	Yes (pdf)
11-20003300-50-300-00M	-	Z45X-03-300 Marking	3051487	Yes (pdf)
11-20003300-65-00	-	Assembly DN65	3051487	Yes (pdf)
11-20003300-65-01	-	Body AWWA DN65 Class300	3051487	Yes (pdf)
11-20003300-80-00	-	Assembly DN80	3051487	Yes (pdf)
11-20003300-80-01	-	Body AWWA DN80 Class300	3051487	Yes (pdf)
11-2001416-100-00	-	Assembly DN100	3051487	Yes (pdf)
11-2001416-100-01	-	Body DN100	3051487	Yes (pdf)
11-2001416-100-02.1	-	Wedge casting DN100	3051487	Yes (pdf)
11-2001416-100-06I	-	Bonnet DN100	3051487	Yes (pdf)
11-2001416-100-06	-	Bonnet DN100	3051487	Yes (pdf)
11-2001416-100-09	-	Upper cover DN100	3051487	Yes (pdf)
11-2001416-125-00	-	Assembly DN125	3051487	Yes (pdf)
11-2001416-125-01	-	Body DN125	3051487	Yes (pdf)
11-2001416-125-02.1	-	Wedge casting DN125	3051487	Yes (pdf)
11-2001416-125-06	-	Bonnet DN125	3051487	Yes (pdf)
11-2001416-150-00	-	Assembly DN150	3051487	Yes (pdf)
11-2001416-150-01	-	Body DN150	3051487	Yes (pdf)
11-2001416-150-02.1	-	Wedge casting DN150	3051487	Yes (pdf)
11-2001416-150-06	-	Bonnet DN150	3051487	Yes (pdf)
11-2001416-150-09	-	Upper cover DN150	3051487	Yes (pdf)
11-2001416-200-00	-	Assembly DN200	3051487	Yes (pdf)

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11-2001416-200-01	-	Body DN200	3051487	Yes (pdf)
11-2001416-200-02.1	-	Wedge casting DN200	3051487	Yes (pdf)
11-2001416-200-06	-	Bonnet DN200	3051487	Yes (pdf)
11-2001416-200-09	-	Upper cover DN200	3051487	Yes (pdf)
11-2001416-250-00	-	Assembly DN250	3051487	Yes (pdf)
11-2001416-250-01	-	Body DN250	3051487	Yes (pdf)
11-2001416-250-02.1	-	Wedge casting DN250	3051487	Yes (pdf)
11-2001416-250-06	-	Bonnet DN250	3051487	Yes (pdf)
11-2001416-250-09	-	Upper cover DN250	3051487	Yes (pdf)
11-2001416-300-00	-	Assembly DN300	3051487	Yes (pdf)
11-2001416-300-01	-	Body DN300	3051487	Yes (pdf)
11-2001416-300-02.1	-	Wedge casting DN300	3051487	Yes (pdf)
11-2001416-300-06	-	Bonnet DN300	3051487	Yes (pdf)
11-2001416-300-09	-	Upper cover DN300	3051487	Yes (pdf)
11-2001416-50-00	-	Assembly DN50	3051487	Yes (pdf)
11-2001416-50-02.1	-	Wedge casting DN50	3051487	Yes (pdf)
11-2001416-50-300-00M	-	Z45X-01-1.6 Marking	3051487	Yes (pdf)
11-2001416-65-00	-	Assembly DN65	3051487	Yes (pdf)
11-2001416-65-01	-	Body DN65	3051487	Yes (pdf)
11-2001416-65-02.1	-	Wedge casting DN65	3051487	Yes (pdf)
11-2001416-65-06	-	Bonnet DN65	3051487	Yes (pdf)
11-2001416-80-00	-	Assembly DN80	3051487	Yes (pdf)
11-2001416-80-02.1	-	Wedge casting DN80	3051487	Yes (pdf)
11-2001416-80-06	-	Bonnet DN80	3051487	Yes (pdf)
11-2001416-80-09	-	Upper cover DN80	3051487	Yes (pdf)
11-2001425-100-00	-	Assembly DN100	3051487	Yes (pdf)
11-2001425-100-01	-	Body DN100	3051487	Yes (pdf)
11-2001425-125-00	-	Assembly DN125	3051487	Yes (pdf)
11-2001425-125-01	-	Body DN125	3051487	Yes (pdf)
11-2001425-150-00	-	Assembly DN150	3051487	Yes (pdf)
11-2001425-150-01	-	Body DN150	3051487	Yes (pdf)
11-2001425-200-00	-	Assembly DN200	3051487	Yes (pdf)
11-2001425-200-01	-	Body DN200	3051487	Yes (pdf)
11-2001425-250-00	-	Assembly DN250	3051487	Yes (pdf)
11-2001425-250-01	-	Body DN250	3051487	Yes (pdf)
11-2001425-300-00	-	Assembly DN300	3051487	Yes (pdf)
11-2001425-300-01	-	Body DN300	3051487	Yes (pdf)
11-2001425-50-00	-	Assembly DN50	3051487	Yes (pdf)
11-2001425-50-01	-	Body DN50	3051487	Yes (pdf)
11-2001425-50-300-00M	-	Z45X-01-2.5 Marking	3051487	Yes (pdf)
11-2001425-65-00	-	Assembly DN65	3051487	Yes (pdf)
11-2001425-65-01	-	Body DN65	3051487	Yes (pdf)
11-2001425-80-00	-	Assembly DN80	3051487	Yes (pdf)
11-2001425-80-01	-	Body DN80	3051487	Yes (pdf)
11-2001925-100-00	-	Assembly DN100	3051487	Yes (pdf)
11-2001925-100-01	-	Body DN100	3051487	Yes (pdf)
11-2001925-125-00	-	Assembly DN125	3051487	Yes (pdf)
11-2001925-125-01	-	Body DN125	3051487	Yes (pdf)
11-2001925-150-00	-	Assembly DN150	3051487	Yes (pdf)
11-2001925-150-01	-	Body DN150	3051487	Yes (pdf)
11-2001925-200-00	-	Assembly DN200	3051487	Yes (pdf)
11-2001925-200-01	-	Body DN200	3051487	Yes (pdf)

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11-2001925-250-00	-	Assembly DN250	3051487	Yes (pdf)
11-2001925-250-01	-	Body DN250	3051487	Yes (pdf)
11-2001925-300-00	-	Assembly DN300	3051487	Yes (pdf)
11-2001925-300-01	-	Body DN300	3051487	Yes (pdf)
11-2001925-50-00 Assembly DN50	-	Assembly DN50	3051487	Yes (pdf)
11-2001925-50-01 Body DN50	-	Wedge casting DN50	3051487	Yes (pdf)
11-2001925-50-300-00M	-	Z45X-02-2.5 Marking	3051487	Yes (pdf)
11-2001925-65-00 Assembly DN65	-	Assembly DN65	3051487	Yes (pdf)
11-2001925-65-01 Body DN65	-	Body DN65	3051487	Yes (pdf)
11-2001925-80-00 Assembly DN80	-	Assembly DN80	3051487	Yes (pdf)
11-2001925-80-01 Body DN80	-	Body DN80	3051487	Yes (pdf)
11-6001416-100-04	-	Stem DN100	3051487	Yes (pdf)
11-6001416-125-04	-	Stem DN125	3051487	Yes (pdf)
11-6001416-150-04	-	Stem DN150	3051487	Yes (pdf)
11-6001416-200-04	-	Stem DN200	3051487	Yes (pdf)
11-6001416-250-04	-	Stem DN250	3051487	Yes (pdf)
11-6001416-300-04	-	Stem DN300	3051487	Yes (pdf)
11-6001416-65-04	-	Stem DN65	3051487	Yes (pdf)
11-6001416-80-04	-	Stem DN80	3051487	Yes (pdf)
11-7001416-100-03	-	Stem nut DN100	3051487	Yes (pdf)
11-7001416-100-08	-	Sliding disc DN100	3051487	Yes (pdf)
11-7001416-150-03	-	Stem nut DN150	3051487	Yes (pdf)
11-7001416-150-08	-	Sliding disc DN150	3051487	Yes (pdf)
11-7001416-200-03	-	Stem nut DN200	3051487	Yes (pdf)
11-7001416-200-08	-	Sliding disc DN200	3051487	Yes (pdf)
11-7001416-250-03	-	Stem nut DN250	3051487	Yes (pdf)
11-7001416-250-08	-	Sliding disc DN250	3051487	Yes (pdf)
11-7001416-300-03	-	Stem nut DN300	3051487	Yes (pdf)
11-7001416-300-08	-	Sliding disc DN300	3051487	Yes (pdf)
11-7001416-80-03	-	Stem nut DN80	3051487	Yes (pdf)
11-7001416-80-08	-	Sliding disc DN80	3051487	Yes (pdf)
11-8001416-100-02	-	Wedge DN100	3051487	Yes (pdf)
11-8001416-100-05	-	Protector DN100	3051487	Yes (pdf)
11-8001416-100-07	-	Sealing ring DN100	3051487	Yes (pdf)
11-8001416-100-10	-	Bonnet gasket DN100	3051487	Yes (pdf)
11-8001416-125-02	-	Wedge DN125	3051487	Yes (pdf)
11-8001416-125-05	-	Protector DN125	3051487	Yes (pdf)
11-8001416-125-10	-	Bonnet gasket DN125	3051487	Yes (pdf)
11-8001416-150-02	-	Wedge DN150	3051487	Yes (pdf)
11-8001416-150-05	-	Protector DN150	3051487	Yes (pdf)
11-8001416-150-07	-	Sealing ring DN150	3051487	Yes (pdf)
11-8001416-150-10	-	Bonnet gasket DN150	3051487	Yes (pdf)
11-8001416-200-02	-	Wedge DN200	3051487	Yes (pdf)
11-8001416-200-05	-	Protector DN200	3051487	Yes (pdf)
11-8001416-200-07	-	sealing ring DN200	3051487	Yes (pdf)
11-8001416-200-10	-	Bonnet gasket DN200	3051487	Yes (pdf)
11-8001416-250-02	-	Wedge DN250	3051487	Yes (pdf)
11-8001416-250-05	-	Protector DN250	3051487	Yes (pdf)
11-8001416-250-07	-	Sealing ring DN250	3051487	Yes (pdf)
11-8001416-250-10	-	Bonnet gasket DN250	3051487	Yes (pdf)
11-8001416-300-02	-	Wedge DN300	3051487	Yes (pdf)
11-8001416-300-05	-	Protector DN300	3051487	Yes (pdf)

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11-8001416-300-07	-	Sealing ring DN300	3051487	Yes (pdf)
11-8001416-300-10	-	Bonnet gasket DN300	3051487	Yes (pdf)
11-8001416-50-02	-	Wedge DN50	3051487	Yes (pdf)
11-8001416-65-02	-	Wedge DN65	3051487	Yes (pdf)
11-8001416-65-05	-	Protector DN65	3051487	Yes (pdf)
11-8001416-65-10	-	Bonnet gasket DN65	3051487	Yes (pdf)
11-8001416-80-02	-	Wedge DN80	3051487	Yes (pdf)
11-8001416-80-05	-	Protector DN80	3051487	Yes (pdf)
11-8001416-80-07	-	Sealing ring DN80	3051487	Yes (pdf)
11-8001416-80-10	-	Bonnet gasket DN80	3051487	Yes (pdf)
11G-2000325-100(114)-00	-	Assembly DN100-114	3051487	Yes (pdf)
11G-2000325-100(114)-01	-	Body DN100-114	3051487	Yes (pdf)
11G-2000325-125(140)-00	-	Assembly DN125-140	3051487	Yes (pdf)
11G-2000325-125(140)-01	-	Body DN125-140	3051487	Yes (pdf)
11G-2000325-125(141)-00	-	Assembly DN125-141	3051487	Yes (pdf)
11G-2000325-125(141)-01	-	Body DN125-141	3051487	Yes (pdf)
11G-2000325-150(165)-00	-	Assembly DN150-165	3051487	Yes (pdf)
11G-2000325-150(165)-01	-	Body DN150-165	3051487	Yes (pdf)
11G-2000325-150(168)-00	-	Assembly DN150-168	3051487	Yes (pdf)
11G-2000325-150(168)-01	-	Body DN150-168	3051487	Yes (pdf)
11G-2000325-200-00	-	Assembly DN200	3051487	Yes (pdf)
11G-2000325-200-01	-	Body DN200	3051487	Yes (pdf)
11G-2000325-50(60)-00	-	Assembly DN50-60	3051487	Yes (pdf)
11G-2000325-50(60)-01	-	Body DN50-60	3051487	Yes (pdf)
11G-2000325-50-300-00M	-	Z85X-2.5 Marking	3051487	Yes (pdf)
11G-2000325-65(73)-00	-	Assembly DN65-73	3051487	Yes (pdf)
11G-2000325-65(73)-01	-	Body DN65-73	3051487	Yes (pdf)
11G-2000325-65(76)-00	-	Assembly DN65-76	3051487	Yes (pdf)
11G-2000325-65(76)-01	-	body DN65-76	3051487	Yes (pdf)
11G-2000325-80-00	-	Assembly DN80	3051487	Yes (pdf)
11G-2000325-80-01	-	Body DN80	3051487	Yes (pdf)
12-2000025-125-150-21	-	Handwheel OD300	3051487	Yes (pdf)
12-2000025-200-21	-	Handwheel OD330	3051487	Yes (pdf)
12-2000025-250-300-21	-	Handwheel OD406	3051487	Yes (pdf)
12-2000025-50-100-21	-	Handwheel OD203	3051487	Yes (pdf)
12-20003150-100-00	-	Assembly DN100	3051487	Yes (pdf)
12-20003150-125-00	-	Assembly DN125	3051487	Yes (pdf)
12-20003150-150-00	-	Assembly DN150	3051487	Yes (pdf)
12-20003150-200-00	-	Assembly DN200	3051487	Yes (pdf)
12-20003150-250-00	-	Assembly DN250	3051487	Yes (pdf)
12-20003150-300-00	-	Assembly DN300	3051487	Yes (pdf)
12-20003150-50-00	-	Assembly DN50	3051487	Yes (pdf)
12-20003150-50-300-00M	-	Z41X-03-175 Marking	3051487	Yes (pdf)
12-20003150-65-00	-	Assembly DN65	3051487	Yes (pdf)
12-20003150-80-00	-	Assembly DN80	3051487	Yes (pdf)
12-2000316-100-00	-	Assembly DN100	3051487	Yes (pdf)
12-2000316-125-00	-	Assembly DN125	3051487	Yes (pdf)
12-2000316-150-00	-	Assembly DN150	3051487	Yes (pdf)
12-2000316-200-00	-	Assembly DN200	3051487	Yes (pdf)
12-2000316-250-00	-	Assembly DN250	3051487	Yes (pdf)
12-2000316-300-00	-	Assembly DN300	3051487	Yes (pdf)
12-2000316-50-00	-	Assembly DN50	3051487	Yes (pdf)

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12-2000316-50-300-00M	-	Z41X-02-1.6 Marking	3051487	Yes (pdf)
12-2000316-65-00	-	Assembly DN65	3051487	Yes (pdf)
12-2000316-80-00	-	Assembly DN80	3051487	Yes (pdf)
12-20003300-100-00	-	Assembly DN100	3051487	Yes (pdf)
12-20003300-125-00	-	Assembly DN125	3051487	Yes (pdf)
12-20003300-150-00	-	Assembly DN150	3051487	Yes (pdf)
12-20003300-200-00	-	Assembly DN200	3051487	Yes (pdf)
12-20003300-250-00	-	Assembly DN250	3051487	Yes (pdf)
12-20003300-300-00	-	Assembly DN300	3051487	Yes (pdf)
12-20003300-50-00	-	Assembly DN50	3051487	Yes (pdf)
12-20003300-50-300-00M	-	Z41X-03-300 Marking	3051487	Yes (pdf)
12-20003300-65-00	-	Assembly DN65	3051487	Yes (pdf)
12-20003300-80-00	-	Assembly DN80	3051487	Yes (pdf)
12-2001416-100-00	-	Assembly DN100	3051487	Yes (pdf)
12-2001416-100-06	-	Yoke DN100	3051487	Yes (pdf)
12-2001416-100-10	-	Gland DN100	3051487	Yes (pdf)
12-2001416-125-00	-	Assembly DN125	3051487	Yes (pdf)
12-2001416-125-06	-	Yoke DN125	3051487	Yes (pdf)
12-2001416-125-10	-	Gland DN125	3051487	Yes (pdf)
12-2001416-150-00	-	Assembly DN150	3051487	Yes (pdf)
12-2001416-200-00	-	Assembly DN200	3051487	Yes (pdf)
12-2001416-200-06	-	Yoke DN200	3051487	Yes (pdf)
12-2001416-200-10	-	Gland DN200	3051487	Yes (pdf)
12-2001416-250-00	-	Assembly DN250	3051487	Yes (pdf)
12-2001416-250-06	-	Yoke DN250	3051487	Yes (pdf)
12-2001416-250-10	-	Gland DN250	3051487	Yes (pdf)
12-2001416-300-00	-	Assembly DN300	3051487	Yes (pdf)
12-2001416-300-06	-	Yoke DN300	3051487	Yes (pdf)
12-2001416-300-10	-	Gland DN300	3051487	Yes (pdf)
12-2001416-50-00	-	Assembly DN50	3051487	Yes (pdf)
12-2001416-50-300-00M	-	Z41X-01-1.6 Marking	3051487	Yes (pdf)
12-2001416-65-00	-	Assembly DN65	3051487	Yes (pdf)
12-2001416-80-00	-	Assembly DN80	3051487	Yes (pdf)
12-2001416-80-06	-	Yoke DN80	3051487	Yes (pdf)
12-2001416-80-10	-	Gland DN80	3051487	Yes (pdf)
12-2001425-100-00	-	Assembly DN100	3051487	Yes (pdf)
12-2001425-125-00	-	Assembly DN125	3051487	Yes (pdf)
12-2001425-150-00	-	Assembly DN150	3051487	Yes (pdf)
12-2001425-200-00	-	Assembly DN200	3051487	Yes (pdf)
12-2001425-250-00	-	Assembly DN250	3051487	Yes (pdf)
12-2001425-300-00	-	Assembly DN300	3051487	Yes (pdf)
12-2001425-50-00	-	Assembly DN50	3051487	Yes (pdf)
12-2001425-50-300-00M	-	Z41X-01-2.5 Marking	3051487	Yes (pdf)
12-2001425-65-00	-	Assembly DN65	3051487	Yes (pdf)
12-2001425-80-00	-	Assembly DN80	3051487	Yes (pdf)
12-2001925-100-00	-	Assembly DN100	3051487	Yes (pdf)
12-2001925-125-00	-	Assembly DN125	3051487	Yes (pdf)
12-2001925-150-00	-	Assembly DN150	3051487	Yes (pdf)
12-2001925-200-00	-	Assembly DN200	3051487	Yes (pdf)
12-2001925-250-00	-	Assembly DN250	3051487	Yes (pdf)
12-2001925-300-00	-	Assembly DN300	3051487	Yes (pdf)
12-2001925-50-00	-	Assembly DN50	3051487	Yes (pdf)

FM APPROVALS PROJECT NO: PR454628

12-2001925-50-300-00M	-	Z41X-02-2.5 Marking	3051487	Yes (pdf)
12-2001925-65-00	-	Assembly DN65	3051487	Yes (pdf)
12-2001925-80-00	-	Assembly DN80	3051487	Yes (pdf)
12-4000025-100-05	-	Nut 55x2 DN100	3051487	Yes (pdf)
12-4000025-100-07	-	Compaction nut M34x1.5 DN100	3051487	Yes (pdf)
12-4000025-125-05	-	Nut M55x1.5 DN125	3051487	Yes (pdf)
12-4000025-200-05	-	Nut M60x2 DN200	3051487	Yes (pdf)
12-4000025-200-07	-	Compaction nut M40x1.5 DN200	3051487	Yes (pdf)
12-4000025-250-05	-	Nut M68x2 DN250	3051487	Yes (pdf)
12-4000025-250-07	-	Compaction nut M46x1.5 DN250	3051487	Yes (pdf)
12-6001416-100-04.1	-	Nut DN100	3051487	Yes (pdf)
12-6001416-100-04.2	-	Stem Shaft DN100	3051487	Yes (pdf)
12-6001416-100-04	-	Stem DN100	3051487	Yes (pdf)
12-6001416-125-04.2	-	Stem Shaft DN125	3051487	Yes (pdf)
12-6001416-125-04	-	Stem DN125	3051487	Yes (pdf)
12-6001416-125-150-04.1	-	Nut DN125-150	3051487	Yes (pdf)
12-6001416-150-04.2	-	Stem Shaft DN150	3051487	Yes (pdf)
12-6001416-150-04	-	Stem DN150	3051487	Yes (pdf)
12-6001416-200-04.1	-	Nut DN200	3051487	Yes (pdf)
12-6001416-200-04.2	-	Stem Shaft DN200	3051487	Yes (pdf)
12-6001416-200-04	-	Stem DN200	3051487	Yes (pdf)
12-6001416-250-04.1	-	Nut DN250	3051487	Yes (pdf)
12-6001416-250-04.2	-	Stem Shaft DN250	3051487	Yes (pdf)
12-6001416-250-04	-	Stem DN250	3051487	Yes (pdf)
12-6001416-300-04.1	-	Nut DN300	3051487	Yes (pdf)
12-6001416-300-04.2	-	Stem Shaft DN300	3051487	Yes (pdf)
12-6001416-300-04	-	Stem DN300	3051487	Yes (pdf)
12-6001416-50-04.2	-	Stem Shaft DN50	3051487	Yes (pdf)
12-6001416-50-04	-	Stem DN50	3051487	Yes (pdf)
12-6001416-50-80-04.1	-	Nut DN50-80	3051487	Yes (pdf)
12-6001416-65-04.2	-	Stem Shaft DN65	3051487	Yes (pdf)
12-6001416-65-04	-	Stem DN65	3051487	Yes (pdf)
12-6001416-80-04.2	-	Stem Shaft DN80	3051487	Yes (pdf)
12-6001416-80-04	-	Stem DN80	3051487	Yes (pdf)
12-7001416-100-03	-	Stem nut DN100	3051487	Yes (pdf)
12-7001416-100-08	-	Upside sliding disc DN100	3051487	Yes (pdf)
12-7001416-100-09	-	Underside sliding disc DN100	3051487	Yes (pdf)
12-7001416-125-03	-	Stem nut DN125	3051487	Yes (pdf)
12-7001416-125-08	-	Upside sliding disc DN125	3051487	Yes (pdf)
12-7001416-125-09	-	Underside sliding disc DN125	3051487	Yes (pdf)
12-7001416-200-03	-	Stem nut DN200	3051487	Yes (pdf)
12-7001416-200-08	-	Upside sliding disc DN200	3051487	Yes (pdf)
12-7001416-200-09	-	Underside sliding disc DN200	3051487	Yes (pdf)
12-7001416-250-03	-	Stem nut DN250	3051487	Yes (pdf)
12-7001416-250-08	-	Upside sliding disc DN250	3051487	Yes (pdf)
12-7001416-250-09	-	Underside sliding disc DN250	3051487	Yes (pdf)
12-7001416-300-03	-	Stem nut DN300	3051487	Yes (pdf)
12-7001416-80-03	-	Stem nut DN80	3051487	Yes (pdf)
12G-2000325-100(114)-00	-	Assembly DN100-114	3051487	Yes (pdf)
12G-2000325-125(140)-00	-	Assembly DN125-140	3051487	Yes (pdf)
12G-2000325-125(141)-00	-	Assembly DN125-141	3051487	Yes (pdf)
12G-2000325-150(165)-00	-	Assembly DN150-165	3051487	Yes (pdf)

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12G-2000325-150(168)-00	-	Assembly DN150-168	3051487	Yes (pdf)
12G-2000325-200-00	-	Assembly DN200	3051487	Yes (pdf)
12G-2000325-50(60)-00	-	Assembly DN50-60	3051487	Yes (pdf)
12G-2000325-50-300-00M	-	Z81X-2.5 Marking	3051487	Yes (pdf)
12G-2000325-65(73)-00	-	Assembly DN65-73	3051487	Yes (pdf)
12G-2000325-65(76)-00	-	Assembly DN65-76	3051487	Yes (pdf)
12G-2000325-80-00	-	Assembly DN80	3051487	Yes (pdf)
FM Gate Valve 1101 ONTOR Mark	-	FM Gate Valve 1101 ONTOR Mark	3060201	Yes (pdf)
FM Gate Valve 1102 ONTOR Mark	-	FM Gate Valve 1102 ONTOR Mark	3060201	Yes (pdf)
FM Gate Valve 1105 ONTOR Mark	-	FM Gate Valve 1105 ONTOR Mark	3060201	Yes (pdf)
FM Gate Valve 1106 ONTOR Mark	-	FM Gate Valve 1106 ONTOR Mark	3060201	Yes (pdf)
FM Gate Valve 1107 ONTOR Mark	-	FM Gate Valve 1107 ONTOR Mark	3060201	Yes (pdf)
FM Gate Valve 1201 ONTOR Mark	-	FM Gate Valve 1201 ONTOR Mark	3060201	Yes (pdf)
FM Gate Valve 1202 ONTOR Mark	-	FM Gate Valve 1202 ONTOR Mark	3060201	Yes (pdf)
FM Gate Valve 1205 ONTOR Mark	-	FM Gate Valve 1205 ONTOR Mark	3060201	Yes (pdf)
FM Gate Valve 1206 ONTOR Mark	-	FM Gate Valve 1206 ONTOR Mark	3060201	Yes (pdf)
FM Gate Valve 1207 ONTOR Mark	-	FM Gate Valve 1207 ONTOR Mark	3060201	Yes (pdf)

Listing Sheet for Model H84X, H44X and H44X-01

☐ Automatic Sprinkler Systems
 ☐ Valves
 ☐ Check Valves
 ☐ Single Check Valves

Models H84X, H44X and H44X-01

<i>Product Designation</i>	<i>Description</i>	<i>Nominal Pipe Size, in.</i>	<i>Max Working Pressure, psi (kPa)</i>	<i>Remarks</i>
Model H84X	Swing Check Valve, Grooved Ends	2, 2-1/2, 3, 4, 5, 6, 8, 10, 12 76.1, 139.7 and 165.1 mm	365 (2515)	a, b
Model H44X	Swing Check Valve, Flanged Ends	2, 2-1/2, 3, 4, 5, 6, 8, 10, 12	300 (2070)	a, b
Model H44X-01	Swing Check Valve, Flanged Ends	2, 2-1/2, 3, 4, 5, 6, 8, 10, 12	300 (2070)	a, b

- a. For use in horizontal and vertical installations.
- b. Resilient seat.

CDL Control Drawing Blueprint Report

Blueprint Report**Shandong Lede Machinery Co Ltd (113572)****Class No 1210****Original Project I.D. 3057546**

<u>Drawing No.</u>	<u>Revision Level</u>	<u>Drawing Title</u>	<u>Last Report</u>	<u>Electronic Drawing</u>
31-20000300-100 -05	-	Disc DN100 300PSI	3057546	No
31-20000300-100 -08	-	Clapper Arm DN100 300PSI	3057546	No
31-20000300-100 -17	-	Bonnet DN100 300PSI	3057546	No
31-20000300-100-00	-	Assembly DN100 300PSI	3057546	No
31-20000300-100-01	-	Body DN100 300PSI	3057546	No
31-20000300-125 -05	-	Disc DN125 300PSI	3057546	No
31-20000300-125 -08	-	Clapper Arm DN125 300PSI	3057546	No
31-20000300-125 -17	-	Bonnet DN125 300PSI	3057546	No
31-20000300-125-00	-	Assembly DN125 300PSI	3057546	No
31-20000300-125-01	-	Body DN125 300PSI	3057546	No
31-20000300-150 -05	-	Disc DN150 300PSI	3057546	No
31-20000300-150 -08	-	Clapper Arm DN150 300PSI	3057546	No
31-20000300-150 -17	-	Bonnet DN150 300PSI	3057546	No
31-20000300-150-00	-	Assembly DN150 300PSI	3057546	No
31-20000300-150-01	-	Body DN150 300PSI	3057546	No
31-20000300-200 -05	-	Disc DN200 300PSI	3057546	No
31-20000300-200 -08	-	Clapper Arm DN200 300PSI	3057546	No
31-20000300-200 -17	-	Bonnet DN200 300PSI	3057546	No
31-20000300-200-00	-	Assembly DN200 300PSI	3057546	No
31-20000300-200-01	-	Body DN200 300PSI	3057546	No
31-20000300-250 -05	-	Disc DN250 300PSI	3057546	No
31-20000300-250 -08	-	Clapper Arm DN250 300PSI	3057546	No
31-20000300-250 -17	-	Bonnet DN250 300PSI	3057546	No
31-20000300-250-00	-	Assembly DN250 300PSI	3057546	No
31-20000300-250-01	-	Body DN250 300PSI	3057546	No
31-20000300-300 -05	-	Disc DN300 300PSI	3057546	No
31-20000300-300 -08	-	Clapper Arm DN300 300PSI	3057546	No
31-20000300-300 -17	-	Bonnet DN300 300PSI	3057546	No
31-20000300-300-00	-	Assembly DN300 300PSI	3057546	No
31-20000300-300-01	-	Body DN300 300PSI	3057546	No
31-20000300-50 -05	-	Disc DN50 300PSI	3057546	No
31-20000300-50 -08	-	Clapper Arm DN50 300PSI	3057546	No
31-20000300-50 -17	-	Bonnet DN50 300PSI	3057546	No
31-20000300-50-00	-	Assembly DN50 300PSI	3057546	No
31-20000300-50-01	-	Body DN50 300PSI	3057546	No
31-20000300-65 -05	-	Disc DN65 300PSI	3057546	No
31-20000300-65 -08	-	Clapper Arm DN65 300PSI	3057546	No
31-20000300-65 -17	-	Bonnet DN65 300PSI	3057546	No
31-20000300-65-00	-	Assembly DN65 300PSI	3057546	No
31-20000300-65-01	-	Body DN65 300PSI	3057546	No
31-20000300-80 -05	-	Disc DN80 300PSI	3057546	No
31-20000300-80 -08	-	Clapper Arm DN80 300PSI	3057546	No

FM APPROVALS PROJECT NO: PR454783

31-20000300-80 -17	-	Bonnet DN80 300PSI	3057546	No
31-20000300-80-00	-	Assembly DN80 300PSI	3057546	No
31-20000300-80-01	-	Body DN80 300PSI	3057546	No
31-60000300-100 -02	-	Seat Ring DN100 300PSI	3057546	No
31-60000300-100-04	-	Nut DN100 300PSI	3057546	No
31-60000300-100-13	-	Hinge Pin DN100 300PSI	3057546	No
31-60000300-100-14	-	Hinge Plug DN100 300PSI	3057546	No
31-60000300-125 -02	-	Seat Ring DN125 300PSI	3057546	No
31-60000300-125-04	-	Disc Plate DN125 300PSI	3057546	No
31-60000300-125-13	-	Hinge Pin DN125 300PSI	3057546	No
31-60000300-150 -02	-	Seat Ring DN150 300PSI	3057546	No
31-60000300-150-04	-	Disc Plate DN150 300PSI	3057546	No
31-60000300-150-13	-	Hinge Pin DN150 300PSI	3057546	No
31-60000300-150-14	-	Hinge Plug DN150 300PSI	3057546	No
31-60000300-200 -02	-	Seat Ring DN200 300PSI	3057546	No
31-60000300-200-04	-	Disc Plate DN200 300PSI	3057546	No
31-60000300-200-13	-	Hinge Pin DN200 300PSI	3057546	No
31-60000300-200-14	-	Hinge Plug DN200 300PSI	3057546	No
31-60000300-250 -02	-	Seat Ring DN250 300PSI	3057546	No
31-60000300-250-04	-	Disc Plate DN250 300PSI	3057546	No
31-60000300-250-13	-	Hinge Pin DN250 300PSI	3057546	No
31-60000300-250-14	-	Hinge Plug DN250 300PSI	3057546	No
31-60000300-300 -02	-	Seat Ring DN300 300PSI	3057546	No
31-60000300-300-04	-	Disc Plate DN300 300PSI	3057546	No
31-60000300-300-13	-	Hinge Pin DN300 300PSI	3057546	No
31-60000300-300-14	-	Hinge Plug DN300 300PSI	3057546	No
31-60000300-50 -02	-	Seat Ring DN50 300PSI	3057546	No
31-60000300-50-04	-	Nut DN50 300PSI	3057546	No
31-60000300-50-13	-	Hinge Pin DN50 300PSI	3057546	No
31-60000300-50-14	-	Hinge Plug DN50 300PSI	3057546	No
31-60000300-65 -02	-	Seat Ring DN65 300PSI	3057546	No
31-60000300-65-13	-	Hinge Pin DN65 300PSI	3057546	No
31-60000300-80 -02	-	Seat Ring DN80 300PSI	3057546	No
31-60000300-80-04	-	Nut DN80 300PSI	3057546	No
31-60000300-80-13	-	Hinge Pin DN80 300PSI	3057546	No
31-60000300-80-14	-	Hinge Plug DN80 300PSI	3057546	No
31-70000300-100-12	-	Hinge Bushing DN100 300PSI	3057546	No
31-70000300-150-12	-	Hinge Bushing DN150 300PSI	3057546	No
31-70000300-200-12	-	Hinge Bushing DN200 300PSI	3057546	No
31-70000300-250-12	-	Hinge Bushing DN250 300PSI	3057546	No
31-70000300-300-12	-	Hinge Bushing DN300 300PSI	3057546	No
31-70000300-50-12	-	Hinge Bushing DN50 300PSI	3057546	No
31-70000300-80-12	-	Hinge Bushing DN80 300PSI	3057546	No
31-80000300-100 -03	-	Sealing Ring DN100 300PSI	3057546	No
31-80000300-100 -06	-	Disc Sealing Ring DN100 300PSI	3057546	No
31-80000300-100 -15	-	Hinge Sealing Ring DN100 300PSI	3057546	No
31-80000300-100 -16	-	Bonnet Gasket DN100 300PSI	3057546	No
31-80000300-125 -03	-	Sealing Ring DN125 300PSI	3057546	No
31-80000300-125 -06	-	Disc Sealing Ring DN125 300PSI	3057546	No
31-80000300-125 -16	-	Bonnet Gasket DN125 300PSI	3057546	No
31-80000300-150 -03	-	Sealing Ring DN150 300PSI	3057546	No
31-80000300-150 -06	-	Disc Sealing Ring DN150 300PSI	3057546	No

FM APPROVALS PROJECT NO: PR454783

31-80000300-150 -15	-	Hinge Sealing Ring DN150 300PSI	3057546	No
31-80000300-150 -16	-	Bonnet Gasket DN150 300PSI	3057546	No
31-80000300-200 -03	-	Sealing Ring DN200 300PSI	3057546	No
31-80000300-200 -06	-	Disc Sealing Ring DN200 300PSI	3057546	No
31-80000300-200 -15	-	Hinge Sealing Ring DN200 300PSI	3057546	No
31-80000300-200 -16	-	Bonnet Gasket DN200 300PSI	3057546	No
31-80000300-250 -03	-	Sealing Ring DN250 300PSI	3057546	No
31-80000300-250 -06	-	Disc Sealing Ring DN250 300PSI	3057546	No
31-80000300-250 -15	-	Hinge Sealing Ring DN250 300PSI	3057546	No
31-80000300-250 -16	-	Bonnet Gasket DN250 300PSI	3057546	No
31-80000300-300 -03	-	Sealing Ring DN300 300PSI	3057546	No
31-80000300-300 -06	-	Disc Sealing Ring DN300 300PSI	3057546	No
31-80000300-300 -15	-	Hinge Sealing Ring DN300 300PSI	3057546	No
31-80000300-300 -16	-	Bonnet Gasket DN300 300PSI	3057546	No
31-80000300-50 -03	-	Sealing Ring DN50 300PSI	3057546	No
31-80000300-50 -06	-	Disc Sealing Ring DN50 300PSI	3057546	No
31-80000300-50 -15	-	Hinge Sealing Ring DN50 300PSI	3057546	No
31-80000300-50 -16	-	Bonnet Gasket DN50 300PSI	3057546	No
31-80000300-65 -03	-	Sealing Ring DN65 300PSI	3057546	No
31-80000300-65 -06	-	Disc Sealing Ring DN65 300PSI	3057546	No
31-80000300-65 -16	-	Bonnet Gasket DN65 300PSI	3057546	No
31-80000300-80 -03	-	Sealing Ring DN80 300PSI	3057546	No
31-80000300-80 -06	-	Disc Sealing Ring DN80 300PSI	3057546	No
31-80000300-80 -15	-	Hinge Sealing Ring DN80 300PSI	3057546	No
31-80000300-80 -16	-	Bonnet Gasket DN80 300PSI	3057546	No
31F-20000300-100-00	-	Assemble DN100	3057546	No
31F-20000300-100-01	-	Body DN100	3057546	No
31F-20000300-125-00	-	Assemble DN125	3057546	No
31F-20000300-125-01	-	Body DN125	3057546	No
31F-20000300-150-00	-	Assemble DN150	3057546	No
31F-20000300-150-01	-	Body DN150	3057546	No
31F-20000300-200-00	-	Assemble DN200	3057546	No
31F-20000300-200-01	-	Body DN200	3057546	No
31F-20000300-250-00	-	Assemble DN250	3057546	No
31F-20000300-250-01	-	Body DN250	3057546	No
31F-20000300-300-00	-	Assemble DN300	3057546	No
31F-20000300-300-01	-	Body DN300	3057546	No
31F-20000300-50-00	-	Assemble DN50	3057546	No
31F-20000300-50-01	-	Body DN50	3057546	No
31F-20000300-65-00	-	Assemble DN65	3057546	No
31F-20000300-65-01	-	Body DN65	3057546	No
31F-20000300-80-00	-	Assemble DN80	3057546	No
31F-20000300-80-01	-	Body DN80	3057546	No
31G-2000025-100 -02.1	-	Disc core DN100	3057546	No
31G-2000025-100-00	-	Assemble DN100	3057546	No
31G-2000025-100-01	-	Body DN100	3057546	No
31G-2000025-125 -00	-	Assemble DN125	3057546	No
31G-2000025-125 -01	-	Body DN125	3057546	No
31G-2000025-125 -02.1	-	Disc core DN125	3057546	No
31G-2000025-125(140) -00	-	Assemble DN125(140)	3057546	No
31G-2000025-125(140) -01	-	Body DN125(140)	3057546	No
31G-2000025-150 -00	-	Assemble DN150	3057546	No

FM APPROVALS PROJECT NO: PR454783

31G-2000025-150 -01	-	Body DN150	3057546	No
31G-2000025-150 -02.1	-	Disc core DN150	3057546	No
31G-2000025-150(165) -00	-	Assemble DN150(165)	3057546	No
31G-2000025-150(165) -01	-	Body DN150 (165)	3057546	No
31G-2000025-200 -00	-	Assemble DN200	3057546	No
31G-2000025-200 -01	-	Body DN200	3057546	No
31G-2000025-200 -02.1	-	Disc core DN200	3057546	No
31G-2000025-250 -00	-	Assemble DN250	3057546	No
31G-2000025-250 -01	-	Body DN250	3057546	No
31G-2000025-250 -02.1	-	Disc core DN250	3057546	No
31G-2000025-300 -00	-	Assemble DN300	3057546	No
31G-2000025-300 -01	-	Body DN300	3057546	No
31G-2000025-300 -02.1	-	Disc core DN300	3057546	No
31G-2000025-50 -00	-	Assemble DN50	3057546	No
31G-2000025-50 -01	-	Body DN50	3057546	No
31G-2000025-50 -02.1	-	Disc core DN50	3057546	No
31G-2000025-65 -00	-	Assemble DN65	3057546	No
31G-2000025-65 -01	-	Body DN65	3057546	No
31G-2000025-65 -02.1	-	Disc core DN65	3057546	No
31G-2000025-65(76) -00	-	Assemble DN65(76)	3057546	No
31G-2000025-65(76) -01	-	Body DN65(76)	3057546	No
31G-2000025-80 -00	-	Assemble DN80	3057546	No
31G-2000025-80 -01	-	Body DN80	3057546	No
31G-2000025-80 -02.1	-	Disc core DN80	3057546	No
31G-5000025-100-05	-	Clapper Arm DN100	3057546	No
31G-5000025-125-05	-	Clapper Arm DN125	3057546	No
31G-5000025-150-05	-	Clapper Arm DN150	3057546	No
31G-5000025-200-05	-	Clapper Arm DN200	3057546	No
31G-5000025-250-05	-	Clapper Arm DN250	3057546	No
31G-5000025-300-05	-	Clapper Arm DN300	3057546	No
31G-5000025-50-05	-	Clapper Arm DN50	3057546	No
31G-5000025-65-05	-	Clapper Arm DN65	3057546	No
31G-5000025-80-05	-	Clapper Arm DN80	3057546	No
31G-6000025-100 -04	-	Hinge Pin DN100	3057546	No
31G-6000025-100-02.2	-	Bolt M8 DN100	3057546	No
31G-6000025-125 -04	-	Hinge Pin DN125	3057546	No
31G-6000025-125-02.2	-	Bolt M10 DN125	3057546	No
31G-6000025-200 -04	-	Hinge Pin DN200	3057546	No
31G-6000025-200-02.2	-	Bolt M14 DN200	3057546	No
31G-6000025-250 -04	-	Hinge Pin DN250	3057546	No
31G-6000025-250-02.2	-	Bolt M16 DN250	3057546	No
31G-6000025-300 -04	-	Hinge Pin DN300	3057546	No
31G-6000025-300-02.2	-	Bolt M20 DN300	3057546	No
31G-6000025-50-02.2	-	Bolt M6 DN50	3057546	No
31G-6000025-50-04	-	Hinge Pin DN50	3057546	No
31G-7000025-100 -07	-	Hinge Bushing DN100	3057546	No
31G-7000025-100-10	-	Seat Ring DN100	3057546	No
31G-7000025-125 -07	-	Hinge Bushing DN125	3057546	No
31G-7000025-125-10	-	Seat Ring DN125	3057546	No
31G-7000025-150-10	-	Seat Ring DN150	3057546	No
31G-7000025-200 -07	-	Hinge Bushing DN200	3057546	No
31G-7000025-200-10	-	Seat Ring DN200	3057546	No

FM APPROVALS PROJECT NO: PR454783

31G-7000025-250 -07	-	Hinge Bushing DN250	3057546	No
31G-7000025-250-10	-	Seat Ring DN250	3057546	No
31G-7000025-300 -07	-	Hinge Bushing DN300	3057546	No
31G-7000025-300-10	-	Seat Ring DN300	3057546	No
31G-7000025-50 -07	-	Hinge Bushing DN50	3057546	No
31G-7000025-50-10	-	Seat Ring DN50	3057546	No
31G-7000025-65-10	-	Seat Ring DN65	3057546	No
31G-7000025-80-10	-	Seat Ring DN80	3057546	No
31G-8000025-100 -02	-	Disc DN100	3057546	No
31G-8000025-100 -50	-	Stoper DN100	3057546	No
31G-8000025-125 -02	-	Disc DN125	3057546	No
31G-8000025-125 -50	-	Stoper DN125	3057546	No
31G-8000025-150 -02	-	Disc DN150	3057546	No
31G-8000025-200 -02	-	Disc DN200	3057546	No
31G-8000025-200 -50	-	Stoper DN200	3057546	No
31G-8000025-250 -02	-	Disc DN300	3057546	No
31G-8000025-250 -50	-	Stoper DN250	3057546	No
31G-8000025-300 -02	-	Disc DN250	3057546	No
31G-8000025-300 -50	-	Stoper DN300	3057546	No
31G-8000025-50 -02	-	Disc DN50	3057546	No
31G-8000025-50 -50	-	Stoper DN50	3057546	No
31G-8000025-65 -02	-	Disc DN65	3057546	No
31G-8000025-80 -02	-	Disc DN80	3057546	No
H44X-01	-	Mark-H44X-01	3057546	No
H44X	-	Mark-H44X	3057546	No
H84X	-	Mark-H84X	3057546	No
Mark	-	GSC-365 Resilient Swing Check Valve	3060175	Yes (pdf)



KIRMARY Company

for engineering supplies

import & export

Trading agencies

LEDE[®]

SHANDONG LEDE MACHINERY CO., LTD.



Approvals

Submittal For Approval Of Materials

Date: 17-Oct-20

Request no: MAT-CSCEC-00-ME-FF-0385-00

Project No. & Title: E18066-020A9 The Central Business District of the New Administrative Capital of Egypt

Employer: 	Engineer: 	Contractor: 
---	---	---

1. Material description (one item only on this form) :

Fire Fighting Valves (Zone Control Valve UL&FM)

Area of application : General for all CBD Tower (according to the attached material list)

Drawing ref. :

B.O.Q. ref. no.: 211313&211200

Specification Ref. : SECTION-211313&211200

Standards:

Attach all relevant technical literature marked to identify relevant description, current Test Certificates, samples as appropriate.

2. Manufacturer / supplier

Company Name : LEDE

Address : 5A Khaled Ibn Alwalid st.-Shelaton, Heliopolis, Cairo, Egypt

Local agent : KIRMARY

3. Delivery :

Country of origin : China

Availability
☐ Locally Manufactured ☒ Overseas

Delivery :

Ex-works/ total duration

Estimated time of arrival on site

Program :

Date material required on site

Latest date for order

We certify that the above submitted items have been reviewed in detail and are correct and in strict conformity with the contract drawings and specifications except as otherwise stated; also that the material sources indicated above have been reviewed in detail and that they will supply the submitted items in conformity with the above and deliver same timely.

Submitted by : Liu Qianwei Zhu Yefei

Signature:

4. Engineer's Representative comments:

Refer to comments on the attached (A4) sheet

H. Ghonaimy

28-10-2020

Signature:

Ahmed Elbanna

Date:

28-10-2020

- ☐ Approved
- ☒ Approved as noted
- ☐ Revise and resubmit
- ☐ Rejected
- ☐ Sample required
- ☐ Tests required
- ☐ Additional information required
- ☐ Manufacturer's guarantee required

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.

dar Dar Al-Handasah
Sole and Partners

07 MAR 2019

RECEIVED

Prj. No. E18066-0200S Time

Project No. & Title: E18066-0200S - The Central Business District of the New Administrative Capital of Egypt

Request no: MAT-CSCEC-00-ME-FF-0012-00

Employer:  CBD PROJECT IN NEW ADMINISTRATIVE CAPITAL	Engineer: 	Contractor:  中國建築股份有限公司 CHINA STATE CONSTRUCTION ENGRG. CORP. LTD
---	--	--

Fire Fighting Valves

Area of application : CBD

Drawing ref. :

Specification Ref. : SPC_01_SEC-211200
SPC_01_SEC-211313

B.O.Q. ref. no.: 211200/211313

Standards:

Attach all relevant technical literature marked to identify relevant description, current Test Certificates, samples as appropriate.

2. Manufacturer / supplier

Company Name : LEDE

Address : 5A Khaled Ibn Alwalid st.-Shelaton, Heliopolis, Cairo, Egypt
Local agent : KIP MARY

Local agent : KIR MARY

3. Delivery :

Country of origin : China

Availability

☐ Locally Manufactured

 Overseas

Delivery : Ex-works/ total duration []
Estimated time of arrival on site [28 MAR, 2019]

Program : _____

Date material required on site [_____]

Latest date for order [_____]

[illegible]

We certify that the above submitted items have been reviewed in detail and are correct and in strict conformity with the contract drawings and specifications except as otherwise stated; also that the material sources indicated above have been reviewed in detail and that they will supply the submitted items in conformity with the above and deliver same timely.

Submitted by : wang zhongguo

Signature: 王中国 康晓峰

4. Engineer's Representative comments:

Refer To Engineer Comments on
the attached sheet

Ahmed
14/3/19

Signature:

Date:

14/3/2018

- ☐ Approved
- ☒ Approved as noted
- ☐ Revise and resubmit
- ☐ Rejected → (Butterfly valve model D7IX)
- ☒ Sample required
- ☐ Tests required
- ☒ Additional information required
- ☐ Manufacturer's guarantee required

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents

S-PRC-SS-02(F26) Rev 2

☐ Manufacturer's
 guaranteed
 required

no change to Contract Documents.

14 MAR 2019

Received
 CBCD Project in New
 Administrative Capital

dar

Submittal for approval of materials

Shair and Partners
24 OCT 2018
RECEIVED
Pg. No. E16104-0400S 2/02

Date: 24-Oct-18

Request no: GRB-MAT-MFF-123-Rev 00

Project no. & title:

E16104-0400S/T-08/Ministerial Buildings on Plots 19B & 20B

Employer: 	Engineer: dar	Contractor: 
--	-------------------------	--

1. Material description (one item only on this form) :

Lede Valves (Zone Control UL&FM)

Attachment :-

- Hard Copy
- CD
- No Sample

Area of application : All Building

Drawing ref. : N/A

B.O.Q. ref. no.: N/A

Specification Ref. : 15111

Standards: N/A

Attach all relevant technical literature marked to identify relevant description, current Test Certificates, samples as appropriate.

2. Manufacturer / supplier

Company Name : Kirmary

Address : 5A Khaled Ebn El Waleed st. Sheraton, Calro, Egypt

Local agent : -

3. Delivery :

Ex-Stock

Country of origin : Egypt

Availability

☒ Locally Manufactured

☐ Overseas

Delivery : Ex-works/ total duration

Estimated time of arrival on site

Program :

Date material required on site

Latest date for order

We certify that the above submitted items have been reviewed in detail and are correct and in strict conformity with the contract drawings and specifications except as otherwise stated; also that the material sources indicated above have been reviewed in detail and that they will supply the submitted items in conformity with the above and deliver same timely.

Submitted by : ENG./ Ahmed ElMessery

Signature:

4. Engineer's Representative comments:

Refer to The Comments on The attached sheet.

study okayed

28 10 018.

28/10/18

Signature:

A. Ra

Date: 28/10/18

- ☐ Approved
- ☒ Approved as noted
- ☐ Revise and resubmit
- ☐ Rejected
- ☒ Sample required
- ☐ Tests required
- ☒ Additional information required
- ☐ Manufacturer's guarantee required

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.

Chad

29/10/18

18 OCT 2018

RECEIVED

Prj. No. E16104-0400S Time 1:30 PM

Submittal for approval of materials



Date: 18-10-2018

Request no: GAM-MAT-NFR0183-01

Project no. & title: E16104-0400S- T-07 Ministerial Buildings on Plot 17A-18A

Employer: 	Engineer: 	Contractor: 
--	--	--

1. Material description (one item only on this form) :

Fire Fighting Valves

No Sample

Area of application : Fire Fighting Network

Drawing ref. : N/A

B.O.Q. ref. no.: N/A

Specification Ref. : 15111-15300

Attach all relevant technical literature marked to identify relevant description, current Test Certificates, samples as appropriate.

2. Manufacturer / supplier

Company Name : LEDE, Giacomini, System Sensor

Address : Sheraton , Cairo

Local agent : KIRMARY

3. Delivery :

Country of origin : CHINA

Availability

☐ Locally Manufactured

☒ Overseas

Delivery :

Ex-works/ total duration

[

]

Estimated time of arrival on site

[

]

Program :

Date material required on site

[

]

Latest date for order

[

]

We certify that the above submitted items have been reviewed in detail and are correct and in strict conformity with the contract drawings and specifications except as otherwise stated; also that the material sources indicated above have been reviewed in detail and that they will supply the submitted items in conformity with the above and deliver same timely.

Submitted by : (C.T.O.M) Eng. Ahmed Abdelraouf

Signature:

4. Engineer's Representative comments:

Refer to The attached sheet.

shady elsayed

28 10 08.

28/10/08

Signature: A. Ra

Date: 28/10/18

- ☐ Approved
- ☒ Approved as noted
- ☐ Revise and resubmit
- ☐ Rejected
- ☒ Sample required
- ☒ Tests required
- ☒ Additional information required
- ☐ Manufacturer's guarantee required

Approval shall not relieve Contractor of his liabilities under the contract or constitute authorization of any change to Contract Documents.



dar

Submittal for approval of materials

24 OCT 2018

RECEIVED

Date: 24-Oct-2018

Request no: RSC-MAT-MFF-0141 Rev.00

Project no. & title: E16104-0400S-t-05-DAR

Ministerial Buildings 13A&14A

Employer: 	Engineer: 	Contractor: 
--	--	--

1. Material description (one item only on this form) :

Fire Fighting Valves

Attachment : Submittal + CD (Without Sample)

Area of application : Mechanical "Fire Fightings"

Drawing ref. : N/A

B.O.Q. ref. no.:

Specification Ref. : 15111

Standards:

Attach all relevant technical literature marked to identify relevant description, current Test Certificates, samples as appropriate.

2. Manufacturer / supplier

Company Name : LEDE
Address : 5A Khaled Ibn Alwalid st. - Shelaton, Heliopolis, Cairo, Egypt
Local agent : KIR MARY

3. Delivery :

Country of origin : China

Availability
☐ Locally Manufactured ☒ Overseas

Delivery : Ex-works/ total duration [] []
Estimated time of arrival on site [] []

Program : Date material required on site [] []
Latest date for order [] []

dar Dar Al-Handasah (Chair and Partners)			
Project No: E16104-0400S			
RECEIVED:			
Distribution	Action	Info	Req
T.B	/		
Scg		/	
ARem		/	
Dar Egypt			

We certify that the above submitted items have been reviewed in detail and are correct and in strict conformity with the contract drawings and specifications except as otherwise stated; also that the material sources indicated above have been reviewed in detail and that they will supply the submitted items in conformity with the above and deliver same timely.

Submitted by : Eng. Khaled Essam

Signature: Khaled Essam

4. Engineer's Representative comments:

Refer to the comments on the attached.

29 OCT 2018

Signature: A.R.

Date: 28/10/18

- ☐ Approved
- ☒ Approved as noted
- ☐ Revise and resubmit
- ☐ Rejected
- ☒ Sample required
- ☐ Tests required
- ☒ Additional information required
- ☐ Manufacturer's guarantee required

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.

Approval of materials

Military Colleges and Institutes

Date: 06/06/2022

Request no: RSC-MAT-MFF-0031-REV 00

Ministry of Defense
الهيئة الهندسية للقوات المسلحة



Engineer:

dar

Contractor:



1. Material description (one item only on this form):

Flanged OS&Y Gate Valve For Fire Fighting , Model 1210, 300 psi, LEDE,

Attachment : Submittal

Area of application : Mechanical "fire fighting "

Drawing ref. :

Specification Ref. : 15052

Attach all relevant technical literature marked to identify relevant description, current Test Certificates, samples as appropriate.

B.O.Q. ref. no.:

2. Manufacturer / supplier

Company Name : KIRMARY

Address : 5A KHALED EBN EL WALEED ST , SHERATON , CAIRO , EGYPT

Local agent : KIRMARY

3. Delivery :

Country of origin :

Availability : EGYPT

☒ Locally Manufactured

☐ Overseas

Delivery :

Ex-works/ total duration

Estimated time of arrival on site

Program :

Date material required on site

Latest date for order

M.Y

dar Egypt

We certify that the above submitted items have been reviewed in detail and are correct and in strict conformity with the contract drawings and specifications except as otherwise stated; also that the material sources indicated above have been reviewed in detail and that they will supply the submitted items in conformity with the above and deliver same timely.

Submitted by :

Eng / Anis Lotfy

Signature:

Ker/Kous said

Engineer's Representative comments:

Refer to attached comment sheet

[Handwritten signature]

- ☐ Approved
- ☒ Approved as noted
- ☐ Revise and resubmit
- ☐ Rejected
- ☐ Sample required
- ☐ Tests required
- ☒ Additional information required
- ☒ Manufacturer's guarantee required

Date:

Officer Representative :

Signature:

shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract

Date:



مشروع الحي الاتيني

EGC
ENGINEERING CONSULTANTS GROUP S.A.



المقاول: جاما للإنشاءات

هناك مدينة العالمين الجديد

الإستشاري: جماعة المهندسين الإستشاريين

(Submittal - MAT)
طلب اعتماد مواد

إستشاري :- جماعة المهندسين الإستشاريين
EGC
جاما للإنشاءات
GAMA
من المقاول العام :

رقم الطلب: 14-Apr-21 التاريخ: 0 الإصدار: MSF-GAMA-ECG-MEP-071
موضوع: Sample + Catalogue + CD المرفقات: FIRE FIGHTING VALVES (GATE AND CHECK)
عمال: ☐ إنشائي ☐ معماري ☐ كهرباء ☐ ميكانيكا ☐ مساحة ☐ أخرى

البيان / الوصف	عدد النسخ	المصنع / بلد الصنع	رمز المواصفات	رمز المقايضة
Material List	3	LEDE	13916	
Specs	3			
Compliance Sheet	3			
Technical Data Sheet	3			
UL Certificate	3			
APPROVALS	3			
Products Test Certificates	3			

ل: المستندات المرفقة تسيقها ومراجعتها من حيث تطابقها مع العقد وتعتبر مقبولة للاستخدام في المشروع من قبل المقاول

إستلام الإستشاري بواسطة: ☐ بالتوقيع: ☐ بتاريخ: ☐
مدير الجودة: ☐ مدير المكتب الفني: ☐

ت الإستشاري: * Refer to comments at attache
AA.

إستلام الإستشاري بواسطة: ☐ بالتوقيع: ☐ بتاريخ: ☐
يعاد التقديم مرة أخرى بعد اتمام الملاحظات ☐ ج
الطلب مرفوض ☐ د
معتمد مع ملاحظات يمكن للمقاول أن يستمر بناء على الملاحظات ☒

اعتماد الإستشاري: م/الإستلام بواسطة: ☐
إستلام المقاول: ☐

الإستشاري: ☐



التوقييم:

طلب اعتماد مواد

MS/R5/Z03/MECH/0243	رقم الطلب: Rev.01	المالك : هيئة المجتمعات العمرانية	مشروع الحي السكني R05 - (Zone) 3 بالعاصمة الإدارية الجديدة
صفحة 1/1	التاريخ : 2020 / 12 / 02	الإستشاري : جماعة المهندسين الإستشاريين ECG	المقاول : ASGC Construction

1. قسم التقديم:

☐ انشائي	☐ معماري	☐ كهرباء	☒ صحي	☐ تكييف	☒ حريق	☐ أخرى
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2. صفة التقديم:

1	عينات (2) عظم	2	خامات	3	كتالوج	4	أخرى
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3. التقديم بالغرض

☐ للعلم ☒ للاعتماد ☐ أخرى

4. الموقع:

المنطقة : ZONE3 التجمع : ALL Clusters المبنى :

5. تفاصيل التقديم:

م	البيان/ الوصف	المُصنع / المورد	أرقام مراجع المستندات	عدد النسخ	مراجع العقد	الاعتماد كود
					المواصفات	
1	LEDE VALVES FOR FIRE FIGHTING WORKS	LEDE / KIRMARY			13916	B

ملاحظات المقاول :

- مرفق عدد 1 " Gate Valve OS&Y 4"
- مرفق عدد 4 " Check Valve 1"
- مرفق شهادة اختبار من كلية الهندسة - جامعة القاهرة

مهندس المكتب الفني الاسم : التوقيع :	مدير المكتب الفني الاسم : التوقيع :
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ملاحظات الإستشاري:

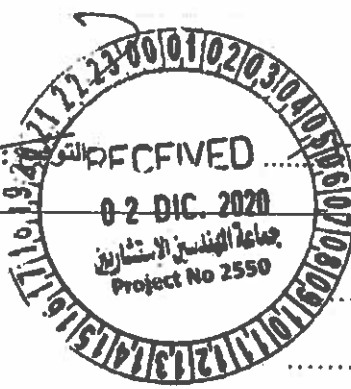
☐ معتمد	(A)
☒ معتمد مع ملاحظات	(B)
☐ يعاد تقديمه بعد استيفاء الملاحظات	(C)
☐ مرفوض ولا يعاد تقديمه	(D)

لما بلغ مع أكثر سكرات الاختبار ارفقت
كل الحاصل استكمال سكرات الاختبار كباقي

الحامس - المبيات المقدمة تحت المراقبة المرافقة (UL/FM)

0.0.17

0.0.17



استلام المقاول بالاسم : التوقيع :	استلام الاستشاري الاسم : التوقيع :
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طلب اعتماد مواد

MS/R5/Z02/INF/0018	رقم الطلب: Rev.00	المالك : هيئة المجتمعات العمرانية	مشروع الحي السكني R05 - (Zone 02) بالعاصمة الإدارية الجديدة
صفحة 1/1	التاريخ : 2021/11/21	الإستشاري: جماعة المهندسين الإستشاريين ECG	المقاول : شركة المراسم الدولية

1. قسم التقديم:

☐ انشائي	☐ معماري	☐ كهرباء	☐ صحي	☐ تكييف	☒ حريق	☐ اخرى
---------------------------------	---------------------------------	---------------------------------	------------------------------	--------------------------------	--	-------------------------------

2. صفة التقديم:

1	☐ عينات	2	☐ خامات	3	☒ كتالوج	4	☐ أخرى
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3. التقديم بالغرض

☐ للعلم ☒ للاعتماد ☐ اخرى

4. الموقع:

المنطقة : عام التجمع : عام المبنى : عام

5. تفاصيل التقديم:

م	البيان/ الوصف	المُصنَع / المورد	ارقام مراجع المستندات	عدد النسخ	مراجع العقد اللوحة المقايسة مواصفات	كود الاعتماد
Fire Hydrant and NRS Gate Valve (Infrastructure Works)						
1	Fire Hydrant and NRS Gate Valve (Infrastructure Works)	LEDE & VIKING /Kirmary	-	2	-	02511
ملاحظات المقاول :						
مهندس المكتب الفني الاسم : م / علي أبو بكر التوقيع :			مدير المكتب الفني الاسم : م / عمرو فهمي التوقيع :			

ملاحظات الإستشاري: كود (B)

☐	(A) معتمد
☒	(B) معتمد مع ملاحظات
☐	(C) يعاد تقديمه بعد استيفاء الملاحظات
☐	(D) مرفوض ولا يعاد تقديمه

تم الرجوع للملاحظات بالحرقعة

25/11/2021

أ. م. شرف

التاريخ : / /

التوقيع :

الاسم :



استلام المقاول بعد المراجعة	استلام الإستشاري
الاسم :	الاسم :
التوقيع :	التوقيع :

الهيئة الهندسية للقوات المسلحة
إدارة المشروعات الكبرى
فرع الميكانيكا والكهرباء
القيود: م/ك/ مشروعات/ ٢٠٢٤
التاريخ: ٢٠٢٤/ ٠٢ /

إلى / مكتب السيد مساعد المدير للإنتاج والتنفيذ

قطاع تنفيذ المشروعات رقم (١٥)

إيماءً إلى كتابكم رقم (٤٨٤) بتاريخ ٣٠ / ٠١ / ٢٠٢٤ والمشار فيه إلى مشروع إنشاء عدد (١٠٩) عمارة إسكان إجتماعى - إسكان كل المصريين بمحافظة كفر الشيخ بشأن أعمال مكافحة الحريق بالمشروع المنكور عليه .

يرجى التكرم بالإحاطة بالآتى

لا مانع من اعتماد محاسب الحريق ماركة LEDE على أن يتم الالتزام بالآتى:-

م	البند	الماركة	مقبول / غير مقبول فنياً	ملاحظات
١	NRS GATE VALVE	LEDE	مقبول فنياً	١- أن يتم تقديم شهادة بلد المنشأ وشهادة UL&FM .
٢	Flanged Swing check valve	LEDE	مقبول فنياً	٢- الاستشاري وطاقم الاشراف مسؤولين عن أخذ عينة عشوائية من المحابس الموردة للموقع ولختبارها بالجهات المختصة
٣	Flanged resilient seated OS&Y gate valve	LEDE	مقبول فنياً	٣- يتم تنفيذ نسبة خصم ١٥% على البند .

- مرفق طيه الكتالوجات الفنية المقمنة .

مع وافر التحية ،،،

فرع ميكانيكا وكهرباء
القيود: ٦٩٨
التاريخ: ٢٠٢٤/ ٢ / ١٩

مساعد المدير للمشروعات
القيود: ٣٩٧
التاريخ: ٢٠٢٤/ ٢ / ١٥

التوقيع (١٥ / ٢ / ٢٠٢٤)
عميد / محمد حسان أحمد
مساعد المدير للمشروعات

التوقيع (١٥ / ٢ / ٢٠٢٤)
راند/ محمود مجدى الدمامونى
رئيس فرع الميكانيكا والكهرباء
التوقيع (١٥ / ٢ / ٢٠٢٤)
عميد / محمد مهاب يساور
مساعد المدير للميكانيكا والكهرباء

المختص نظيب / محمود حسين

الهيئة الهندسية للقوات المسلحة

إدارة المشروعات الكبرى

فرع الميكانيكا والكهرباء

القيد: م.ك / مشروعات / ٢٠٢٣ / ٢٠٢٣

التاريخ: ١١ / ١٠ / ٢٠٢٣ م.

إلى / مكتب السيد مساعد المدير للإنتاج والتنفيذ

(قطاع تنفيذ رقم ١٣)

إيماء إلى كتابكم رقم (٣٧٣٧) بتاريخ ٣١ / ١٠ / ٢٠٢٣ والمشار فيه إلى مشروع أرض المدفعية أعمال شبكات الحريق مشروع رقم (١١٨٦٤) وبخصوص اعتماد محابس الحريق ماركة LEDE للمشروع المذكور عالية .

يرجى التكرم بالإحاطة بالآتي :

لا مانع من اعتماد محابس الحريق للموقع العام ماركة LEDE لسرعة التوريد وصعوبة الاستيراد علي ان الالتزام بالآتي:

- ١- أن يتم تقديم شهادة بلد المنشأ وشهادة UL&FM .
 - ٢- الاستشاري وطاقم الاشراف مسؤولين عن أخذ عينة عشوائية من المحابس الموردة للموقع واختبارها بالجهات المختصة .
 - ٣- يتم تنفيذ نسبة خصم ١٥% على البند .
- مرفق العرض الفني المقدم.

مع وافر التحية ،،،

التوقيع)
عميد / أسامة محمد الجنزوري
مساعد المدير للمشروعات

التوقيع)
عقيد / محمد سعيد ذوالنون
رئيس فرع الميكانيكا والكهرباء

مفلا
التوقيع)

مساعد المدير للمشروعات
القيد: م.ك
التاريخ: ١١ / ١٠ / ٢٠٢٣

فرع ميكانيكا وكهرباء
القيد: م.ك
التاريخ: ١١ / ١٠ / ٢٠٢٣

الضابط المختص:
راند / محمود مجدي الدماموني

Material Approval Request

Reviewed

Mr Usama Salem 08/03/2025

Ref. No: MAR-CPC16-OC-ACE-00308-00		Rev. No: 00	
Project Name: P1-Multi-Family Clusters “C1 & C2 & C4”		Date: 08/03/2025	
Employer: ORA Developers		Contractor: Orascom Construction	
Engineer: JLL		Supervision Consultant: ACE	
Cluster: C1&C2&C4	Building No.:General	Floor Level: General	Activity: General
Subject: alarm check valve and automatic air vent 1” - lede / valmatic (No Sample Attached)			

Proposed Material Details (prepared by Contractor)			
Contractor is responsible for providing sufficient information to allow the SSC to make a decision on suitability of proposed materials			
Civil ☐	Structural ☐	Architectural ☐	Mechanical ☒
HVAC ☐	Plumbing ☐	Other (please specify): ☐	
Material and Manufacturer Details			
Supplier/ Agent:	kirmary	Specification no. :	21 13 13 21 12 00
Product Name :	Lede / valmatic	Compliance Sheet:	☒ Submitted ☐ Not Submitted
Purpose/ Use :	alarm check valve and automatic air vent 1"	BoQ Item no. :	21 13 13 21 12 00
<u>Description of Material to be inspected:</u> alarm check valve and automatic air vent 1" - lede / valmatic (No Sample Attached)			
<u>Attachments:</u> 1. RFI 2. Naffico Emails 3. Kermay Emails 4. Data sheet. 5. Previous approvals.			
Authorised Personnel: Suzan william	Job title: Material Manager	Signature: suzan	 ZED East Cluster C1 & C2 New Capital Date: 06-03-2025

Site Supervision Consultant Response:	
Remarks: Technically approved 1- LEDE ACV - UL listed - diameter as mentioned in SHD 2-4- Valmatic air vent - UL listed 3- Origin certificate should be submit .	
Submittal Final Status:	
☐ A - Approval	☒ B - Approved as noted
☐ C - Revise and Resubmit	☐ D - Rejected
☐ E - Review not Required	
Is Employer approval required ? Yes ☐ No ☐	
Authorised Personnel: Yasser Hassan	SSC Engineer's Signature : Date : 10/3/2025

شهادة اعتماد فنى

Technical Accreditation Certificate

To Whom It May Concern

الى من يهمه الأمر

Center of Planning and Architectural Studies (CPAS) "Prof. Dr. Abdelbaki Ibrahim & Partners" Expertise House of Engineering Consultancy witnesses that: Kir Mary company for Engineering Supplies technical file in the field of: supply of fire Fighting systems was studied, for products: valves ,Fire Hose Cabinet for brand :KM , SPP Pumps ,Hangers made in USA , Bristol Pumps ,Tiger Steel ERW pipes made in UAE - LEDE Valves for fighting , Plumbing works and Grooved fitting ,MECH threaded fittings 300 di, viking fire hydrants and sprinklers , zurn Drains , water hammer and hose bib upon the company's request.

يشهد من مركز الدراسات التخطيطية والمعمارية "أ.د. عبد الباقي إبراهيم وشركاه" - بيت خبرة في الهندسة الاستشارية بأن شركة: كير ماري للتوريدات الهندسية، قد درست ملفها الفني في مجال: توريد أنظمة إطفاء الحريق لمعدات: المحابس ماركة KM - صناديق الحريق ماركة KM - مضخات spp - هناجر صناعة USA - مضخات برينسول ومواسير ماركة TIGER - مضخات STEEL صناعة UAE - (محابس حريق - محابس صرف - وصلات جر وفد) ليدى - وصلات فلافوط ماركة MECH - DI 300 - (عساكر الحريق ومرشاشات) فايكيغ ، وذلك بناءً على طلب الشركة.

By examining the technical file, documents and certificates submitted by Royal Top Company, we hereby confirm that they comply with the technical and engineering quality requirements. The aforementioned products are, thus, listed in the Materials and Vendors Lists approved by CPAS in its various projects inside/ outside the Arab Republic of Egypt for a period of one calendar year starting from the date of issue listed below.

وطبقاً للملف الفني والمستندات والشهادات المقدمة من الشركة فهي مستوفاة للمتطلبات الفنية وتحقق اشتراطات الجودة الهندسية ويتم إدراجها ضمن قائمة الخامات والمواد المعتمدة لدى المركز في مشروعاته المتنوعة داخل/ خارج جمهورية مصر العربية وذلك لمدة سنة ميلادية تبدأ من تاريخ الإصدار المدرج أدناه.

Noteworthy, this certificate is not considered individually for the approval in any project except after referring to the technical approval request for the project.

علماً بأنه لا يعتد بذلك الشهادة منفردة للاعتماد بأي مشروع إلا بعد الرجوع لطلب الاعتماد الفني الخاص بالمشروع.

In witness whereof, we issued this certificate,

وهذه شهادة منا بذلك...

Date of Issue: Tuesday 28/10/2025

صدر في يوم الثلاثاء الموافق ٢٨/١٠/٢٠٢٥

Ven-Cer-2025-010-AG

P.O. Box : 6 Saray - El-Kobba - P.C. : 11712

14 El-Sobky st. - Heliopolis - Cairo - Egypt

Tel : (202) 24190 271 / 843 / 744 - Fax: (202) 22919 341

E-mail : info@cpas-egypt.com - www.cpas-egypt.com

ص.ب: 6 سراى القبة - رمز بريدى : 11712

14 شارع السبكي - خلف نادى هليوبوليس

مصر الجديدة - القاهرة - جمهورية مصر العربية

ت : 24190 271 / 843 / 744 - ف : 341 (202)



	SP0170 Obelisk - Solar + BESS EPC		
Document No.	SP0170-SIEM-CI-DAT-072	Revision No.	05
Contractor Document No.	G55071-A2406-DOC-072	Revision Level	IFR

Fire Hydrant Valves

Type: Rising Stem Hydrant Valve.

Brand: LEDE.

CODE 2

Approved with Comments

CHG - Sky Hospital

طلب اعتماد مستندات فنية (SUB)

تاریخ الإرسال :- ١٦ / ١ / ٢٠٢٣

رقم مسلسل :- SUB-FF-08-01

الموضوع : . مناقصة رقم (٧٢ - ٢٢/٢٣) (tamper switches - flow switch - test & drain valve - pressure gauge) - O.S. & Y gate valves - check valves - alarm check valve)	طلب اعتماد العروض الفنية لمحابس الحريق
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المرجع :	مواصفات :-	15315	الشركات :-	١ . PRO-TEC ٢ . KIRMARY ٣ . OMEGA ٤ . CAPITAL GUARD
	الدور :-	مبني المستشفى - مبني الخدمات	رقم البند :-	رقم (٢)
المرفقات :- عدد (٤) كتالوج + CD + عدد (٢) ورقة اعتمادات سابقة				

نوع الأعمال :-	
☐ مدني	☐ معماري
☐ كهرباء	☐ تكييف
☐ صحي	☐ حريق
☐ طبي	☐
سبب الأضرار :	
☐ للمعلومية	☐ للإعتماد
نوع المرفقات :	
☐ مستندات أصلية	☐ صورة من المستندات

مدير المشروع

مدير المكتب الفني

مهندس المقاولون العرب

التوقيع :-	تاريخ الاستلام :- 2023/1/16
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رأى و ملاحظات الإستشارى :-			
مقبول	مقبول بملاحظات	يعاد التقديم	مرفوض
☐	☒	☐	☐
الرقم	ملاحظات		
	مرفوق الرد		

ملاحظات اضافية

مهندسی المكتب الاستشاری

الأعمال الإعتيادية	أعمال الصحي و الحريق	الأعمال الكهربائية	أعمال التكييف	الأعمال الطبية
	<i>Amr</i>			

well set

24/11/2022

التاريخ :-



مشروع إنشاء المحطة المركزية للحافلات بالعاصمة الإدارية

RECEIVED

إعتماد مواد

Material Submittal

3-8

٢٠٢٢ أغسطس ٢٠
E.C.B

31-07-2022

التاريخ :-

MT-CBS-21006-FF-017

رقم الطلب :-

ميكانيكية ☒

كهربائية ☐

معمارية ☐

إنشائية ☐

نوع المواد :-

Zone Control Valves

اسم المواد :-

LEDE Grooved Swing Check Valve UL/FM Approved, Model No. H84X
LEDE Grooved Resilient Seated OS&Y Gate Valve UL/FM Approved, Model No. 1211
Giacomini Test Drain UL/FM Approved Model A61, Viking Pressure Gauge UL/FM
Potter Tamper Switch UL/FM Approved, Potter Flow Switch UL/FM Approved

وصف المواد :-

Kirimary

اسم المورد :-



CODE	STATUS OF APPROVAL	NAME	SIGN.
A	APPROVED		
B	APPROVED WITH NOTES		
C	RESUBMIT WITH NOTES		
D	REJECTED		

محطة حافلات العاصمة - (Zone A)

مكان التركيب

كتالوج ☒

عينة ☐

المرفقات :-

الاسم/Name : محمد همام عبد المنعم

المكتب الفني

التوقيع/Signature :

المقاول/Contractor

الاستشاري

* Approved as per Compliance statement w/
KAD Section # 211313.

* Test & Drain Valve is limited for 2" dia.

* Pressure gauge is limited for 4" liquid filled
w/ G.V. & siphon.

* Origin & test Certificate to be submitted upon delivery

مرفوض (C) ☐

مقبول بملاحظات (B) ☐

مقبول (A) ☐

الاسم/Name :
التوقيع/Signature :
التاريخ/Date : 2 / 8 / 2022

مدير الاستشاري

الاسم/Name :
التوقيع/Signature :
التاريخ/Date : 2 / 8 / 2022

مهندس الاستشاري



مشروع إنشاء البنك المصري لتنمية الصادرات بالعاصمة الإدارية الجديدة

(Submittal)

طلب اعتماد مواد

شركة اركيرون Archirodon	من المقاول العام :	جماعة المهندسين الاستشاريين ECG المجموعة الاستشارية شاكر SCG	إلى الاستشاري :-
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21-Jan-23	التاريخ	0	الإصدار	MAT/2620/MEC/0137			رقم الطلب						
146 A4		المرفقات	Alternative Firefighting Valves from LEDE				الموضوع						
	النموذج		الدور				المنطقة						
☐	أخرى	☐	مساحة	☒	ميكانيكا	☐	كهرباء	☐	معماري	☐	إنشائي	☐	نوع الاعمال

م	اسم المادة	توصيف المادة	المصنع	بلد الصنع
1	Firefighting Valves	Alternative Firefighting Valves	LEDE	CHINA

تعهد المقاول: المستندات المرفقة تنسيقها ومراجعتها من حيث تطابقها مع العقد وتعتبر مقبولة للاستخدام في المشروع من قبل المقاول

المقاول	مدير الجودة	مدير المكتب الفني

استلام الاستشاري	بواسطة:	التوقيع:	بتاريخ:
------------------	---------	----------	---------

ملاحظات الاستشاري
Refer to comments on the attached sheet.

الاستشاري المختص	الإعتماد بواسطة:	التوقيع:	بتاريخ:
☐ أ	معتمد	ج	مرفوض ويعاد التقديم مرة أخرى بعد اتمام الملاحظات
☒ ب	معتمد مع ملاحظات - يمكن للمقاول ان يستمر بناء على الملاحظات	د	مرفوض ولا يعاد تقديمه

اعتماد الاستشاري	م/.....	بتاريخ/...../.....
استلام المقاول	الإستلام بواسطة :	بتاريخ/...../.....
TYPE : SD:Shop Drawing CA:Calculation SM:Sample MS:Method Statement GT:Guarantee TF:Temporary Facilities MD:Manufacturer's Data OT:Other CT:Certificates TT: Test Results		

التوزيع قبل الاعتماد :

المالك :	الاستشاري :
----------	-------------

التوزيع بعد الاعتماد :

الإستشارى						المقاول	المالك
مدنى	معمارى	كهرباء	تكييف	ميكانيكا	تخطيط		
Q.S							

التاريخ : 12/01/2025
خطاب إعتداد مورد



إخطار بإعتداد مورد

السادة شركة كيرماري للتوريدات الهندسية

تحية طيبة وبعد ،،،

نود ان نحيطكم علماً أنه بعد الاطلاع على منتجات شركتكم و التي تتكون من :

- SPP Fire Pump
- Kirmay Valves
- Kirmay Cabinets
- Lede Valves
- Leda Grooved Fitting
- Mech Ductil Iron Threaded Fitting
- Tiger Steel Pipes

و نفيد لسيادتكم انه تم دراسة المواصفات الفنية للمنتجات المذكورة و جدنا انها تحقق المواصفات المطلوبة و ترتقى ان تكون منتجات معتمدة من قبل مكتب محمد طلعت للإستشارات الهندسية.

لذلك نخطر سيادتكم انه تم اعتماد المورد المذكور كمورد معتمد في مشاريعنا القادمة.

وذلك اخطار منا لكم بذلك

وتفضلوا بقبول فائق الاحترام والتقدير،،،



12/01/2025
مينا زغلول

التاريخ : 12/01/2025
خطاب إعتاماد مورد



إخطار بإعتاماد مورد

السادة / القائمين على مشروع اوجيستا .

تحية طيبة وبعد ،،،

نود ان نحيطكم علماً أنه بعد الاطلاع على منتجات شركة كيرمارى للتوريدات الهندسية و التى تتكون من :

- SPP Fire Pump
- Kirmary Valves
- Kirmary Cabinets
- Lede Valves
- Leda Grooved Fitting
- Mech Ductil Iron Threaded Fitting
- Tiger Steel Pipes

و نفيد لسيادتكم انه تم دراسة المواصفات الفنية للمنتجات المذكورة و جدنا انها تحقق المواصفات المطلوبة و ترتقى ان تكون منتجات معتمدة من قبل مكتب محمد طلعت للاستشارات الهندسية.

لذلك نخطر سيادتكم انه تم اعتماد المورد المذكور كمورد معتمد فى مشاريعنا القادمة.

وذلك اخطار منا لكم بذلك

وتفضلوا بقبول فائق الإحترام والتقدير،،،

مقدمه لسيادتكم
مدير قسم الميكانيكا
م/ مينا زغلول



DIN F4 Resilient seated OS&Y gate valve-flange end

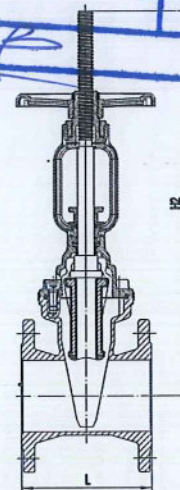
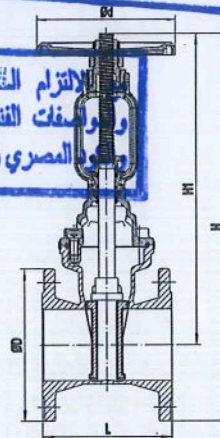
Model No. Z41X-01



Name of parts	Material
Body	Ductile iron
Wedge	Ductile iron+EPDM
Stem nut	Bronze
Stem	SS431 or SS304, SS316, bronze
Bonnet	Ductile iron
Bonnet Gasket	EPDM
Sealing Ring	EPDM
Yoke	Ductile iron

A	Sliding disc	Bronze
B	Screw	Carbon steel with hot galvanization
C	O-ring	EPDM
D	Handwheel	Ductile iron
Signature		

الالتزام التام بما جاء بكماسة الشروط
والمواصفات الفنية وجداول الكميات للمشروع
بمصر والمصري والإكواد العالمية



Technical data >

- Sizes: DN50~DN300
- Working pressure: PN16/PN25
- Valve standard: EN1171
- Flange standard: EN1092-2
- Temperature range: 0 ~ 80 °C

Dimensions		Pressure rating	Size (mm)					
DN	inch	PN	ΦD	L	H1	H2	H	Φd
50	2	16	165	150	358.5	420.5	441	203
		25						
65	2.5	16	185	170	359.5	429.5	452	203
		25						
80	3	16	200	180	378	462	478	203
		25						
100	4	16	220	190	449.5	553	559.5	203
		25	235				567	
125	5	16	250	200	549.5	677	674.5	300
		25	270				684.5	
150	6	16	285	210	591.5	747	734	300
		25	300				741.5	
200	8	16	340	230	735.5	938	905.5	330
		25	360				915.5	
250	10	16	400	250	900.5	1161	1100.5	406
		25	425				1113	
300	12	16	455	270	1045.5	1353	1273	406
		25	485				1288	



Swing check valve with flange end

Model No. H44X



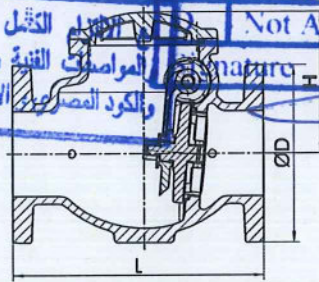
Name of parts	Material
Body	Ductile iron
Seat Ring	Bronze
Disc Sealing Ring	EPDM
Disc Plate	SS304
Disc	Ductile iron
Clapper Arm	Ductile iron
Bonnet Gasket	EPDM
Bonnet	Ductile iron
Hinge Pin	SS304
Hinge Bushing	Bronze
Hinge Plug	SS304

A	Approved
B	Approved with Notes
C	Disapproved, resubmit
	Not Approved

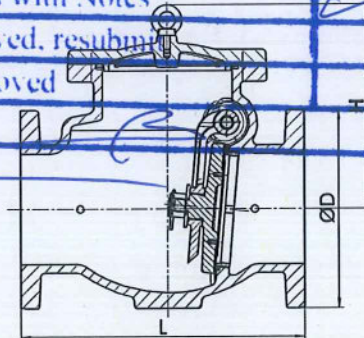
المواصفات الفنية وجدول الكميات المصنوع
والكود المصري والإكواد العالمية

Technical data >

- Sizes: 2"-12"
- Working pressure: 300psi
- Valve standard: AWWA C508
- Flange standard: ASME-B16.1 Class125
- Temperature range: 0 ~ 80 °C



Size 2"-4"



Size 5"-12"

Dimensions		Pressure rating	Size (mm)		
DN	inch		ΦD	L	H
50	2	300	152	203	125
65	2.5	300	178	254	139
80	3	300	191	279	153
100	4	300	229	330	184
125	5	300	254	356	275
150	6	300	279	406	289
200	8	300	343	495	352
250	10	300	406	559	441
300	12	300	483	660	480





اسم المشروع :	إشياء مجمع صناعي حرفي بمدينة الفيوم - قرية هواره المقطع
لمالك :	أبادى مصر
لمقاول العام :	شركة فوكس للإدارة والتطوير
جهة الإصدار :	شركة رؤى المتقدمة مصر
تاريخ الإصدار :	04-Dec-2023
نوع :	AVE-110043/MEP/MTS/042
إصدار :	Rev:00
رقم العقد :	تقييم المهندس الاستشاري
الاستشاري :	عدد النسخ
المقاول المتخصص :	1
جهة الإستلام :	Data Sheet
النوع :	LEDE
إصدار :	المصنع/المورد
وصف البند اسم / نوعيه العينه / الابعاد / السعه / الاستخدام ...الخ	Fire Valves
الرقم	1
	2
	3
	4
	5



إدارة المكتب الفنى :

ود تقييم المهندس الاستشاري :

ب/ موافق بملاحظات
ج/ يعاد التقديم بعد تلافي الملاحظات

أ/ لا توجد ملاحظات

د/ غير م

التوقيع :

تاريخ الاعتماد : ٢٠٢٢ / ١٢ / ١١





**MAIN ADMINISTRATION BUILDING FOR EL-SOADAA GROUP
THE NEW ADMINISTRATIVE CAPITAL**



Materials Approval Request (MAR)

Project :	MAIN ADMINISTRATION BUILDING FOR EL-SOADAA GROUP	Project Code :			
Owner :	EL-SOADAA GROUP	Contractor :	EL-SOADAA GROUP		
onsultant :	CSC (Cairo Smart Consultant)	MAR No :	SG-HQ-CSC-MAR-MECH-0116	Rev :	00

Date : 4/30/2025

Section		Arch		Civil		Mech	✓	Elec	
---------	--	------	--	-------	--	------	---	------	--

Description :

Firefighting Valves

Material List :

LEDE - KIRMARY

Area of Application :

Main Admin building (All floors)

Sample ☐

Data Sheet ☒

Cataloge ☒

certificate ☒

Csc-Consultant

Approved (A)

Approved with Notes (B) ✓

Revised (C)

Rejected (D)

B.O.Q Ref.

N/A

Issued By : Eng/ Nourhan Alaa Eldeen Mohamed Signature : Date : 4/30/2025

Consultant Remarks

APPROVE AND SUBJECT TO,

ALL MATERIALS TO BE LABELED.

COUNTRY OF ORIGIN AND PACKING LIST TO BE PROVIDE.

PROVIDE SAMPLE BEFORE DELIVERY.

A Approved ☐

B Approved as notes ☒

C Resubmit ☐

D Rejected ☐

Consultant Engineer
Name : Mohamed.Ahmed.khalil
Signature :

Black Sand Project

SUBMITTAL TRANSMITTAL FORM TRANSMISSION OF <u>DRAWINGS, DOCUMENTS, MATERIALS, ETC.</u>		Submittal Serial No.: E2017-FF-MAS-0022		Rev. 0	
Consultant: Cosmos-E for Engineers and consultants Contractor: H. A. Construction WE ARE SENDING HEREWITH / UNDER SEPARATE COVER, THE DRAWINGS/ DOCUMENTS / SAMPLES LISTED BELOW.		Date:		November 5, 2020	
		Attachment		121 Pages (A4-Size)	
		Submitted for		CODE	
		Approval		V	
Information					
ACTION:		Approved		A	
		Approved as Noted		B	
		Not Approved		C	
		For Information		D	
Drawings, Spec. BoQ. Ref.	Item Seq. Number	Description	Type	Code Submittal Action	
		Fire Fighting Valves (Manufacturer: LEDE - Supplier:KIRMARY)	MAS		A
FOR CONTRACTOR :		Tarek Hassan	Date:	November 5, 2020	

NOTE:-
SAMPLES ARE ATTACHED

Consultant to enter Action Codes and Remarks, and return to Contractor

Remarks :

CONSULTANT'S COMMENTS

Re See to attached comments.

FOR CONSULTANT :

Date: 17-11-2020

TYPE: SD: Shop Drawing	AD: As Built Drawing	DD: Design Document	QS: Quantity Surveying	MS: Method Statement	MAS: Material Approval Submittal
PMD: Project Management Documents	GN: General Submittal	PQ: Prequalification			
Trade: CI: Civil	AR: Architectural	SS: Structural Steel	ME: Mechanical	PL: Plumbing	PI: Piping
FF: Firefighting	FA: Fire Alarm	EL: Electrical	IC: Instrument & Control	CP: Composite	GN: General Trade
CAS: Civil, Architectural & Structural Steel	MEP: Mechanical, Electrical, Plumbing.	HSE: Safety	QAC: Quality Assurance & Control		

ROUTING			
Consultant:	Contractor:	Sub-Contractor:	
17 NOV 2020 Cosmos -E	H. A. Construction		
Date:	Date:	Date:	
Signature:	Signature:	Signature:	

MATERIAL SUBMITTAL (MS)



Project Name: Villette Project No.: 1089 Employer: Soreal Project Manager: Eng. Amr Al-Rakaiby	Phase: Zone (D&E) – Multi Family Consultant: ABCG Contractor: Talenco Contract: P16
---	--

From: Talenco For Engineering & Contracting To: Active Brains Consulting Group Attn: ENG. Mahmoud Kamel Subject: Flanged Swing Check Value.	Date: 13-7-2020 Submittal: 1089-P16-MS-TAL-ABCG-PLUM-GN-20-0018 REV: 00
--	--

Material / Equipment For: Approval Description: Flanged Swing Check Value for Zone Control Station. Specification Reference: N/A Quantity: N/A	Bill of Quantities Reference: N/A
--	--

Manufacturer's Details: LEDE China. Manufacturer: LEDE Model Number: N/A Country of Origin: China. Storage Location: Site	Serial Number: N/A Certificate of Origin: N/A Date of arrival on site: N/A Bill of lading: N/A
--	---

Attached: Approved (MS) Cover For P13.



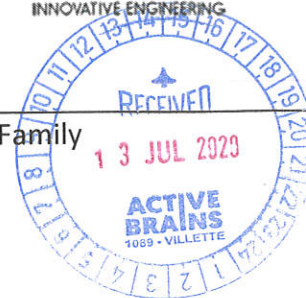
Action Code Legend: (A) Approved and Resubmit (B) Approved as Noted (C) Revise and Resubmit (D) Rejected Notes: ▪ Production, supply and /or implementation shall proceed only when action code is A / or B. ▪ Regarding action code C, resubmittal shall be within the limit set in the contract. ▪ Review dose not relieve the contractor from responsibility of compliance with all requirments of contract documents. ▪ If rejected please see comments.
--

Consultant Comments: Inspection Report: Yes/No Initials Inspector Engineer 1- Physical damage? _____ 2- Details given above correct? _____ 3- Conforms with approved submission? _____ 4- Accessories / Spare parts included? _____ Remarks: * LEDE is approved SOREAL Vendor and UL/FM approved and accepted technically. Consultant Manager Remarks: * Contractor should select valve connection Type to be suitable and applicable with approved fire fitting Actions required from Contractor: _____ Attachments: ☐ Hard Copy ☐ Soft Copy (CD)
--



Employer's Representative Comments: CC: SOREAL Senior Project Manager Eng. Kamel Ismail	Employer Representative Authorized Representative
---	---

MATERIAL SUBMITTAL (MS)



Project Name: Villette Project No.: 1089 Employer: Soreal Project Manager: Eng. Amr Al-Rakaiby	Phase: Zone (D&E) – Multi Family Consultant: ABCG Contractor: Talenco Contract: P16
---	--

From: Talenco For Engineering & Contracting To: Active Brains Consulting Group Attn: ENG. Mahmoud Kamel Subject: OS&Y Gate Value.	Date: 13-7-2020 Submittal: 1089-P16-MS-TAL-ABCG-PLUM-GN-20-0019 REV: 00
--	--

Material / Equipment For: Approval Description: OS&Y Gate Value for Zone Control Station. Specification Reference: N/A Quantity: N/A	Bill of Quantities Reference: N/A
--	--

Manufacturer's Details: LEDE China. Manufacturer: LEDE Model Number: N/A Country of Origin: China. Storage Location: Site	Serial Number: N/A Certificate of Origin: N/A Date of arrival on site: N/A Bill of lading: N/A
--	---

Attached: Approved (MS) Cover For P13.



Action Code Legend:

(A) Approved and Resubmit (B) Approved as Noted (C) Revise and Resubmit (D) Rejected

Notes :

- Production, supply and /or implementation shall proceed only when action code is A / or B.
- Regarding action code C, resubmittal shall be within the limit set in the contract.
- Review dose not relieve the contractor from responsibility of compliance with all requirments of contract documents.
- If rejected please see comments.

Consultant Comments:

Inspection Report:	Yes/No	Initials Inspector Engineer
1- Physical damage?		
2- Details given above correct?		
3- Conforms with approved submission?		
4- Accessories / Spare parts included?		

Remarks: * LEDE is approved SOREAL Vendor and ULIFM approved and accepted Technically

Consultant Manager Remarks: * Contractor should select valve connection type to be

Actions required from Contractor : suitable with approved Fire Fittings.

Attachments:

☐ Hard Copy ☐ Soft Copy (CD)

Employer's Representative Comments: CC: SOREAL Senior Project Manager Eng. Kamel Ismail	Supervision Consultant Authorized representative Employer Representative Authorized Representative
---	---







09 JAN. 2020

MATERIAL SUBMITTAL (MS)

Project Name: Arab Investment Bank Headquarter

Package : Main Package

Project No. : 1185

Phase : Construction

Employer : Arab Investment Bank

Supervision Consultant: EHA F Consulting Engineers

Project Manager : EHA F Consulting Engineers

Contractor : El Soadaa Group

From : El Soadaa Group

Date : 28/12/2019

To : EHA F Consulting Engineers

Submittal Ref.: 1185/SOD/EHF/MS/MEC/019/0035-00

Attn. : Eng. Mohamed Helmy

Previous Ref.: N/A

Subject: Firefighting Valves and Zone Control - (LEDE)

Material/ Equipment For Approval:

Description: Firefighting Valves and Zone Control - (LEDE)

Specification Reference :

Quantity :

Bill of Quantities Reference :

Manufacturer's Details:

Manufacturer : LEDE

Model Number :

Serial number :

Date of arrival on site :

Country of Origin: CHINA

Certificate of origin :

Bill of lading :

Storage Location:

Main Contractor :

Attachments: 2 Catalogues & Compliance Sheet & Previous Manufacture's Works & Test Certificates & UL FM & CD

Action Code Legend:

(A) Approved

(B) Approved as Noted

(C) Revise and Resubmit

(D) Rejected

Notes:

- Production, supply and /or implementation shall proceed only when action code is A / or B.
- Regarding action code C, resubmittal shall be within the limit set in the contract.
- Review does not relieve the contractor from responsibility of compliance with all requirements of contract documents.
- If rejected please see comments.

Consultant Comments:

Inspection Report:

- Physical damage?
- Details given above correct?
- Conforms with approved submission?
- Accessories / Spare parts included?

Yes/No

Initials Inspector

Engineer

Remarks :

Consultant Manager Remarks:

Actions required from Contractor:

Attachments:

☒ Hard Copy

☒ Soft Copy (CD)

Supervision Consultant

Employer's Representative Comments (if required):

Employer Representative

RECEIVED

28 DEC 2019

30

Submission No- SKY02-MS-FF-009 Rev.00 Date: 19-10-2023	
SUBMITTED FOR	CODE
APPROVAL	1
YOUR INFORMATION	
ACTION	
APPROVED	A
APPROVED with comments	B ✓
NOT APPROVED AND RESUBMIT	C
REJECTED	D

Material Submittal OF (FIER FIGHTING)			
Contract Name MEP FOR BUILDING 10			
Project - Skywalk project			
Subject: OS&Y GATE VALVE			
FROM: ELECON		TO: DEWAN	Cc: Skywalk
Attachments: DATA SHEET			
WE ARE SENDING HEREWITH / UNDER SEPARATE COVER, THE DRAWINGS/ DOCUMENTS / SAMPLES LISTED BELOW (DELETE AS NECESSARY)			
QTY	REF	ITEM NUMBER BOQ	DESCRIPTION
1			OS&Y GATE VALVE
			Name : LEDE

CONTRACTOR'S SIGNATURE _____

DEWAN to enter Action Codes and Remarks, and return to Contractor

CONSTRUCTION SUPERVISION REMARKS:

- all eirtificates should be submitted

- All Flanges of fire class 150

(Handwritten signature)

✦ Corrections or comments made relative to submittals during this review do not relieve the contractor from compliance with the requirements of the drawings and specifications. The check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contractor documents. The contractor is responsible for confirming and correlating all quantities and dimensions selecting fabrication processes and techniques of construction; Coordinating his work with that of other trades, and performing his work in a safe and satisfactory manner.

DEWAN SIGNATURE _____

RECEIVED BY CONTRATCOR _____

C

DATE: _____

DATE: _____

TYPE: SD – Shop Drawings
SM – Sample
GT – Guarantee
MD – Manufacture's Data

CT – Certificates
OT – Other

SUBMITTAL CODE
1: Submitted for Approval
2: Submitted for Information
3: Others

Action Code
A: APPROVED
B: APPROVED AS NOTED
C: NOT APPROVED AND RESUBMIT
D: REJECTED

✦ NOTE TO COMPLY WITH THE CONTRACT



Dewan electro mechanical designs

☐ A- Approved

☒ B- Approved as noted.

☐ C- Revise and resubmit as noted

☐ D- Not Approved

Date 19/10/2023

مشروع جوهرة كورنيش النيل مسلسل () رقم الطلب ()

طلب استلام اعتماد اعمال الحريق (1&2) Zone

رابعاً : المحابس للزونات (ZCV Valves) (ماركة LEDE)

برج ()

بتاريخ ١١ / ١٩ / ٢٠٢٥ - ج

منسوب الدور

بعد معاينة الكتالوجات المرفقة تبين انها :

مرفوضة

☐

مقبولة بملاحظات

☒

مقبولة

☐

ملاحظات

تعتمد حسب المواصفة الفنية وجدول الكميات مع
التأكد من أن المحابس المستفيدة داخل غرفة
الامبيات الحريق تعمل فقط تشغيل لا يقل عن
٢٥ بار جودايش

الاستشاري/ المالك

شركة مصر للتعمير

أحمد كمال

المقاول

شركة يثرب

أحمد

Project Name:- Al Hammam Agricultural Drainage Water treatment plant.

MOL OC AC HAC
JOINT VENTURE



19 DEC 2021



Contractor:-
MOL-OC-AC-HAC-JV

CONSULTANT:-
Katib&Alami (K&A)

Client:-
GOE (Water Departments)

Material Submittal

From	MOL-OC-AC-HAC-JV			To	Katib&Alami (K&A)	
Transmittal No	NDWTP-MT-CV-ME-KA-ON-0286	Rev	00	Date	18-Dec-21	
Subject	SPRINKLERS-HYDRANTS-GROOVED FITTINGS-VALVES- FIRE HYDRAINT- THREADED FITTINGS- FIRE HOSE CABINETS- SWITCHES-DRAINS- AIR VENT- HANGERS			Attachment	Data sheet , pre approval & cheek	
Manufacturer:	VIKING-LEDE-MECH-ZYFIRE-SYSTEM SENSOR-POTTER-ZURN-VALMATIC-ERICO	Supplier	KIRMARY	Area Of Application	ALL	
Discipline	☐ Civil / Str.	☐ Arch.	☐ Elect	☒ Mech	☐ Other	
Ser	Description				No of Copies	
1	PRE-QUAILIFACTION FOR KIRMARY & DATA SHEETS FOR PRODUCTS				2	

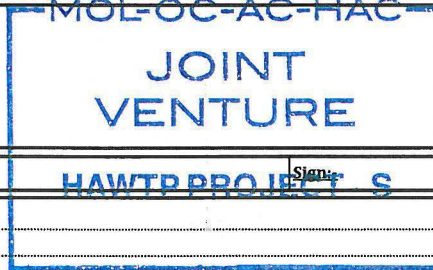
Contractor Commitment:-

the document attached has been reviewed regarding to contract and consider acceptable to be used in the project

Contractor

on shore civil manager
ENG. Nagy Azmy

(Signature)



PROJECT DIRECTOR
ENG. Waleed Fahmy

(Signature)

Consultant Receiving

Name:-

Sign:-

Date:-

Consultant Remarks

** Refer to our Revised Sheet for Comments*

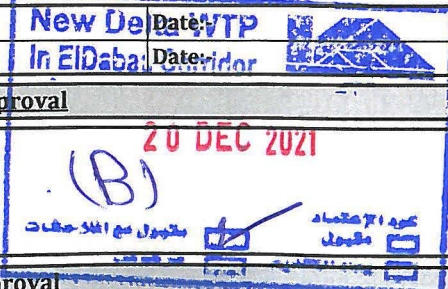
Assigned Consultant Engineer	Name:-	Sign:-	Date
A ☐ Approved			
B ☒ Approved with comments, the work can proceed according to notes			
C ☐ Re-submit after rectify comments	D ☐ Rejected		

Consultant Approval

Name:-

Contractor Receiving

Name:-



Distribution before approval

Consultant

Client

Distribution After approval

Client

Contractor

Consultant

Civil Arch Elect HVAC Mech Planning Q.S

طلب اعتماد العينات بالموقع

عقد رقم: 01

مشروع: تطوير صالة البوليفينج شيراتون الرياضي

العيينة المقدمة : إكسسوارات أجهزة مكافحة الحريق (Fire Fighting)
عيينة رقم : 14
" Fitting Grooves & Valve "

الى : شركة المدن للخدمات الرياضية و الشبابية .

مراجعة رقم : 01

تاريخ تقديم العينة : 2020 / 09 / 28

من : شركة انتجرا مصر .

إشارة الى : مهندس الالكتروميكانيكالى لدى الاستشاري .

توصيف للعيينة المقدمة

Grooved Fittings LEDE (UL / FM)

توصيف العينة :

اسم المصنع :

اسم المورد أو الوكيل المحلي :

المواصفات : طبقا للمرفقات

بند رقم : (1-1) مكافحة الحريق.

شهادة مقارنة بالعينة المرسله :

مرفق العينات : داتا شبييت بدون عينات .

تاريخ التوقيع :

توقيع مدير المشروع :

ختم بتاريخ استلام الاستشاري للطلب

ختم بتاريخ تسليم الطلب للمقاول

ختم بتاريخ استلام المقاول

Submit
INTEGRAT
Date 28/09/2020

Receive
INTEGRAT
Date 5/10/2020

مراجعة مدير المشروعات لدى المكتب الاستشاري

التاريخ : 28/09/2020

التوقيع :

الاسم :

ملاحظات على العينة المرسله

كود الاعتقاد : 33
يرجى ان يلتزم بتعليمات الشركة المصنعة للتركيب والتثبيت
داهول الصانعة وامتثالها لالحاير المصنعة

التاريخ :

التوقيع :

الاسم :

موافقة (A)

موافقة مع وجود ملاحظات (B)

رفض ويتم إعادة الطلب مرة أخرى (C)

مرفوض (D)

توقيع مشرف الموقع المندوب لدى الاستشاري

نيابة عن اسم المكتب الاستشاري :

التاريخ : 10/10/2020

التوقيع :

الاسم : محمود المصري

MATERIAL SUBMITTAL FORM – (MAR)

TITLE:	Fire Fighting Valves & ZCV	SUBMITTAL NO.:	LMS-21-0014 -MAR-0020
FROM:	Eng. Mohamed Ashraf	DATE:	21-03-2022
		REVISION NO:	00
ATTN.:	Project manager	C/REF.:	

MATERIAL SUBMISSION DESCRIPTION

Discipline: ☐ Civil ☐ Architectural ☐ Electrical ☒ Mechanical ☐ Others

Description of Material

Fire Fighting Valves & ZCV

Manufacturer (Name & Address): LEDE

Supplier / Local Agent: Kirmary

Specification: N/A

BOQ Ref:

Description of Attachments:

- Material List.
- Warranty Letter
- UL/FM Certificates
- Previous Approvals
- Test Certificates
- Zone Control

Description of Samples: N/A.

Specification Comparison Sheet

Comparison in case of Alternative Submittal

CONTRACTOR SIGNATURE:

Emiel Naem

Date:

CONSULTANT COMMENTS:

☒ A-APPROVED
 ☒ B-APPROVED AS NOTED, WORK MAY PROCEED – INCORPORATE COMMENTS
 ☐ C- REVISE / RESUBMIT
 ☐ D- REJECTED

Reviewer _____ DATE _____ PROJECT MANAGER _____ DATE _____

Consultant Received:	Contractor Received:
	

ICITY-NC

Material SUBMITTAL

PROJECT: ICITY NC - PH1 (20-22)
CONSULTANT: DMA ACE JV
CONTRACTOR: DMA
FO: ACE



Transmittal/Submittal No.	Rev
ICPC CLD-DME-A15-F-006A	0
Date:	24-Mar-2019
Submitted For	1
Approval	1
Information	2
Action:	
Approved	A
Approved as Noted	B
Revised and Resubmit	C
Rejected	D

WE TRANSMIT HERewith/UNDER SEPARATE COVER, THE DRAWINGS/CALCULATION ETC. LISTED BELOW

ITEM NO.	QTY	DESCRIPTION	TYPE *	SUBMITTAL CODE *	ACTION CODE **
1	1	Zone control valve (OS & Y gate valve, check valve, pressure gauge, test and drain valve) - LEDC		1	B
		Attach: 46 Sheets A4		1	

CONTRACTOR:

RECEIVED BY:

COPIES:

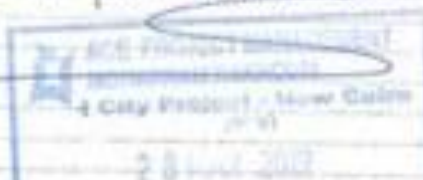
DATE: 24-Mar-2019

DATE: 24-Mar-2019

Consultant to enter ACTION CODE and REMARKS

Consultant Remarks:

- Approved as per attached approval with its comment



T. Hossain

RECEIVED

Date 26/03/2019

Corrections or comments made relative to submittals during this review does not relieve the contractor from compliance with the requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for conforming and correlating all quantities and dimensions, selecting fabrication process and techniques of construction, coordinating his work with that of other trades, and performing his work in a safe and satisfactory manner.

Consultant Resident Engineer

DATE: 27-Mar-19

RECEIVED BY CONTRACTOR:

DATE:

COPIES:

2:30 PM

- * TYPE: SD Shop Drawings
- SM Sample
- GT Guarantee
- MC Manufacturer's Data
- CT Certificates
- OT Others

- * SUBMITTAL CODE:
- 1: Submitted for Approval
- 2: Submitted for Information

- ** ACTION CODE:
- A: Approved
- B: Approved as Noted
- C: Revised and Resubmit
- D: Rejected

Architecture

Structure

Electrical

Mechanical

Surveying

ICITY-NC

Shop Draw/Material Test, etc SUBMITTAL

PROJECT: I-City New Cabin - Phase 1 (14-15, 18-20)
CONTRACTOR: DMA/ACE
TO: DMA/ACE

Submitted/Submitted By: [Signature]
Date: 01/14/2019
Submitted For: [Signature]
Reviewed: [Signature]
Approved: [Signature]
Revised and Resubmitted: [Signature]
Revised: [Signature]

WE TRANSMIT HEREBY UNDER SEPARATE COVER, THE DRAWINGS, CALCULATION ETC. LISTED BELOW.

ITEM NO.	QTY, SPEC, OR BOLL. REF.	QTY	DESCRIPTION	TYPE	SUBMITTAL CODE	ACTION CODE
	Plan (24-25, 18-20) Revised Item (2)	2424, 2425, 18-20	ZONE CONTROL VALVES/SHUTTERS/CHUCKS/VALVE PRESSURE/SAFETY AND SMALL TUBES			B
			ITEMS: 44			

CONTRACTOR:

RECEIVED BY:

COPIES:

DATE: 2/1/2019

DATE:

Consultant is under ACTION CODE and REMARKS

Consultant Remarks:

Approved as an alternative for submittal # 65.
Approval is based on attached application schedule.

17/1/2019

Date 17/01/2019

Corrections or comments made relative to submittals during this review does not release the contractor from compliance with the requirements of the drawings and specifications. This stamp is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for confirming and controlling of quantities and dimensions, selecting fabrication process and techniques of construction, maintaining the work with that of other trades, and performing the work in a safe and satisfactory manner.

Consultant Resident Engineer

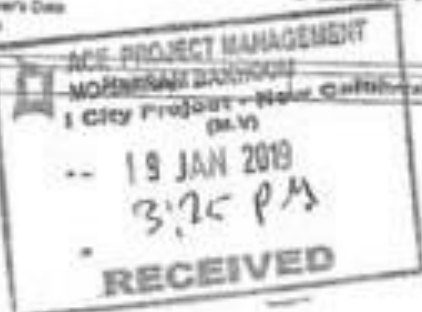
RECEIVED BY CONTRACTOR:

COPIES:

• TYPE: SD Shop Drawings
SM Sample
QT Guarantee
MD Manufacturer's Data
CT Certificate
OT Others

• SUBMITTAL CODE:
1 Submitted for Approval
2 Submitted for Information

• ACTION CODE:
A Approved
B Approved as Noted
C Revised and Resubmitted
D Rejected

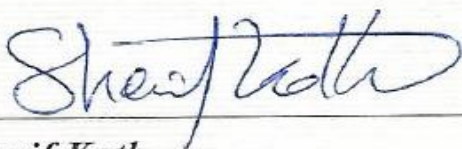


Certificate of Appreciation

Siemens in Egypt would like to thank

Kirmary Co for Engineering Supplies

For their good collaboration with Siemens for the provision of grooved couplings, pipe fittings and accessories for the Fire Fighting systems of all 3 Megaprojects of Egypt.



Sherif Kotb

Deputy Project Director,
Siemens Technologies S.A.E.
Megaprojects in Egypt

Siemens Technologies S. A. E.
Egyptian Joint Stock Company Issued Capital : EGP 28,100 000
Commercial Register No. 93429
Tax Card No. 100-413-536 Large Taxpayers Center (Eu6)

الى من يهمه الأمر ،،،

تشهد شركة اتحاد المقاولون العرب و أوراسكوم بانه قد تم اعتماد واستخدام
المنتج Grooved fittings LEDE UL.FM + LEDE valves UL.FM
والخاصه بشبكات الحريق

بمشروع انفاق قناة السويس بورسعيد وتم التوريد من قبل شركة كيرمارى
للتوريدات الهندسيه - الوكيل الوحيد للمنتج بمصر
وقد تم عمل اختبارات عديده تحت اشراف مهندسين المشروع على المنتج دون
حدوث اى مشكلات فنيه

وهذه شهادة منا بذلك ، دون ادنى مسئوليه من الشركه .

مع الشكر ،،،



THE.07.01.REC.S

Transmittal Info

بيانات نموذج التقديمات

Specs. Division # / Section # : Fire Protection Section 15315 : المواصفات رقم-

Transmittal Reference : موضوع نموذج التقديمات :
باب/قسم

Zone Control Valve Alternative

Transmittal purpose

الهدف من التقديمات

☐ For information ☐ For review ☒ For Approval ☐ For use on site
للعلم للمراجعة للاعتماد للاستخدام بالموقع

Transmittal for submission of

بيان التقديمات

☐ Shop Drawings ☐ Samples / Mock-Ups ☒ Catalogues ☐ Reports
رسومات تشغيل عينات / عينات على الطبيعة كتالوجات تقارير
☐ Site / Works Photos ☐ Time Schedule ☐ Certificate of Origin ☐ Others
صور الموقع / الأعمال جدول زمني شهادة منشأ غير ذلك

No. of copies/items : 3 : عدد النسخ/الأصناف

Deviation from contract: : الاختلاف عن العقد

#	Description / البيان	Rev. No. رقم المراجعة	Sheet Size مقاس اللوحات	Qty. عدد / كمية	Action Code كود الاجراء
01	Zone Control Valve Alternative (LEDE)	01	A4	53	A / N
02					
03					
04					
05					
06					
07					
08					
09					
10					

☒ A Approved ☒ N Approved with notes ☐ R To resubmit ☐ D Rejected
يعتمد يعتمد بملاحظات يعاد تقديمه مرفوض

Contractor Engineer name/اسم مهندس المقاول: Hazem Abdallah Date/التاريخ: 02 / 07 / 17 Signature/توقيع: H. Abdallah

I hereby confirm receipt of the aforementioned documents/items original. استلمت أصل المستندات الموجودة أعلاه

Consultant Engineer name : محمد عيسى date: 3 / 7 / 2017, hour : AM/PM Signature: H. Abdallah
اسم المهندس الاستشاري التاريخ الساعة التوقيع

Approval Notes : ملاحظات الاعتماد :

Reviewed by/قام بالمراجعة : / / 17 Signature/التوقيع :

Transmittal returned to contractor at: / / 2017 THE Signature Cont. Signature:
أعيد أصل النموذج للمقاول بتاريخ توقيع الاستشاري توقيع المقاول

Record Control

مراقبة السجل

Office copy			Project File			Engineer			Site Manager			Projects Manager		
التاريخ	بالفاكس	باليدي	التاريخ	بالفاكس	باليدي	التاريخ	بالفاكس	باليدي	التاريخ	بالفاكس	باليدي	التاريخ	بالفاكس	باليدي
Date	By Fax	Msgr.	Date	By Fax	Msgr.	Date	By Fax	Msgr.	Date	By Fax	Msgr.	Date	By Fax	Msgr.
_ / _ / 0_			_ / _ / 0_			_ / _ / 0_			_ / _ / 0_			_ / _ / 0_		
_ / _ / 0_			_ / _ / 0_			_ / _ / 0_			_ / _ / 0_			_ / _ / 0_		
_ / _ / 0_			_ / _ / 0_			_ / _ / 0_			_ / _ / 0_			_ / _ / 0_		



SHAKER



TRANSMITTAL نموذج تقديمات
مستشفى شفاء الأورمان - المرحلة الثانية

Issues description	ملاحظات الاعتماد	#
— OSLV — Check valve * Valves should be 1.75 Psi class * Certificate for Joints should be submitted.	CODE N	
— flow switch — Temp switch — Pressure gauge — Test & drain	CODE A Approved M. Mohamed 3/7/2017	



SHAKER



ZONE CONTROL VALVE

(FIRE FIGHTING Applications)

Material Submittal - Alternative

(Rev.00)

TABLE OF CONTENT:

- 1- Application Schedule
- 2- BOQ
- 3- OS & Y
- 4- CHECK VALVE
- 5- FLOW SWITCH
- 6- TAMPER SWITCH
- 7- TEST & DRAIN
- 8- PRESSURE GAUGE
- 9- Company Profile & Reference Project



} → CODE (N)

} CODE (A)

M. Molamkol
3/7/2017

Project:- El Mansoura -2

Civil ☐ Mechanical ☒ Electrical ☐ Plumbing ☐ HVAC ☐ Other ☐

Submittal No.: HAC-5plus - MAS -0035 Rev. : 1

To: 5Plus - Site Manager

Submittal	Code
For Erection	1
For Information	2
For Quotation	3
For Approval	4

WE ARE FORWARDING HERewith UNDER SEPARATE COVER, THE DRAWINGS/DOCUMENTS/SAMPLES LISTED BELOW

ITEM	COPIES	SPECS. REF.	DESCRIPTION	REV.	TYPE	ENGINEER ACTION	
						Submittal Status	Code
1			Fire Fighting Valves - LEDE	2	MAS	4	(B)

DATE: July 3, 2017

Project Manager

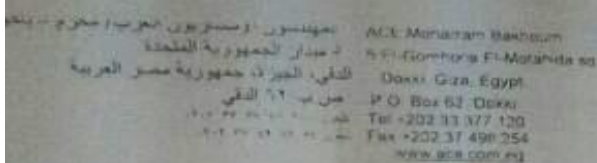
ENGINEER REMARKS:

- Approved technically as alternative for valves ~~not approved~~ ^{per approved shop drawings}
- Screw to be covered by hose to eliminate blockage as screw has fine pitch thread.
- (Switching to Alternative B due to market availability)

Tarek Ramadan
10 Tarek 2017
7

DATE:

ACTION CODE TO BE ENTERED BY ENGINEER		TYPE:	
Approved	A	OT	Other
Approved As Noted	B	SA	Sample
Resubmit	C	SD	Shop Drawing
Rejected	D	SK	Sketch
		WD	Working Drawing



المهندسون الاستشاريون العرب
محرم - بالكون

القاهرة في: ٢٠١٨/٦/٢٠

خطاب رقم م - ۱۵۸ / ۲۰۱۸

رقم المشروع : ٨٠٧١

الموضوع : أعمال مكافحة الحريق - بالبنية الأساسية

١ خطاب المفاوض رقم: ٢٠١٨/١٠/١٠٩ بتاريخ ٢٠١٨/٦/١٣

المسادة/ شركة المقاولون العرب (عثمان أحمد عثمان و شركاه)

السيد المهندس / مدير المشروع

نحية طية و بعد

بالإشارة إلى الموضوع عاليه ، وإلى خطابكم لنا عاليه والخاص بالعرض الفني لمحس القفل قطر ٢,٥ بوصة لزوم صناديق الحريق

العربية بالبنية الأساسية بالمشروع

لحيطكم علماً بأن محيي القفل قطر ٢,٥ بوصة ماركه LEDE :-

- OS&y gate Valve .
- UL Listed & FM Approved.
- Working pressure 300PSI.

١٠ مقبول فنياً في أعمال مكافحة الحريق باستخدام صناديق الحريق الفردية بالبنية الأساسية وبدون المطالبة بأي فروق

اسعار خاصة بأعمال صناديق الحرق .

مرسل للعلم و سرعة اتخاذ اللازم ،،

و تفضلوا بقبول فائق الاحترام ،

١٨
مهندس / بشار فاروق
رئيس جهاز الإسراف
المهندسون الاستشاريون العرب
محرم - باخوم

التوقيع



$\frac{1}{2} \times \frac{1}{2}$

۳/۵ مهر زائد

Feb 22, 15

شماره ۱ / ۱۳۳۵ هـ

OK?

- صورة حفظ

TO : AITC

CC : Shaker Consultancy Group

CONTRACTOR : NORACO

MS No.

004

Submission date:

5/3/2018

Submittal No. :	004	Revision.:	1		
Submittal Title :	FF Valves & Coupling Connection				
Source/Supplier :	LEDE				
Location of use :					
Item No.	Dwgs, Specs, BOQ Ref.	Description	Type	Copies	Action
SM Sample	MD Manufacturer's Data	CT Certificate	TT Tests	GT Guarantee	CAT Catalog
OT Others	CQC Quality Control	TMS Technical Method Statement			
1		Technical submittal	MD	1	
2					
3					
4					
5					
6					
7					
8					

We certify that the materials submitted here with have been reviewed and are in conformance with the contract drawings and specification s except as otherwise stated

Contractor's Representative: Ashraf El Gohary
 Date: 5/3/2018

Received:

Date:

Review comments:

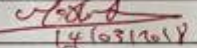
* Approved manufacturer

* Size and Qty to match BOQ and design and to match pipe and fitting standard.

* Installation to be as per manufacture recommendations, Standard and NFPA.

Code B

approved as noted


 14/03/2018

Consultant R.E.

Received by Contractor :

Date:

Date:

Distribution: ☐ Owner ☐ Consultant ☐ Contractor



STANDARD SYSTEMS
For Engineering and Trading

اسم المشروع: مشروع / أعمال مكافحة الحريق بمخازن شركة بن سينا فارما / فرع طنطا (١-٣)

طلب اعتماد مواد

الاستشاري: مكتب الحصري للإستشارات الهندسية

المالك: شركة بن سينا فارما للأدوية

وجه إلى: مهندس إستشاري / علاء جمال
اسم وتوقيع المستلم:

مقدم من: شركة ستاندرد سيستمز الهندسة والتجارة
اسم وتوقيع المرسل: مهندس / أحمد التميمي
٥٥٩٢١٦٦

بتاريخ: ٢٩/٨/٢٠١٧

بتاريخ: ٢٩/٨/٢٠١٧

إصدار رقم: ٠٠

رقم النموذج: Matrial /Fire/ AEL VALVES MFP

عنوان النموذج / محابس الإنذار الرئيسي لمعدات الحريق		حسب مستندات التعاقد		بديل
م	عدد النسخ	البيان / الوصف	المصنع	رقم المقايمة
١	٢	محابس الإنذار الرئيسي a)- MAIN ALARM CHECK VALVE	LEDE OR RELIABLE	(٩)
		الدور:	الجزء:	

الاستشاري المختص:	الإعتماد بواسطة:	التوقيع:	بتاريخ:
.....			٢٠١٧/...../.....
الملاحظات			

ج = معتمد مع ملاحظات ويعاد التقديم مرة أخرى ☐

أ = معتمد ☒

د = الطلب مرفوض ويعاد التقديم مرة أخرى ☐

ب = معتمد مع ملاحظات. يمكن للعمل أن يستمر بناء على الملاحظات ☐

اعتماد الاستشاري	اعتماد المقاول
م/ بتاريخ ٦/٦/٢٠١٧	علاء جمال Standard Systems بتاريخ ١/١/.....

التوزيع قبل الاعتماد : التوزيع بعد الاعتماد

No	المالك	الاستشاري	المقاول	الاستشاري

Address of Head Office: 6th October City - Rawdet Zayed- Gate (B) Building (9)

Phone: 01154440026 - 01154440027 - 01154440028 - 010055 92166 - 01005156508 - 01221000490

E-Mail: info@standardeg.com

Web: www.Standardeg.com



STANDARD SYSTEMS
For Engineering and Trading

اسم المشروع: مشروع / أعمال مكافحة الحريق بمخازن شركة بن سينا فارما / فرع طنطا (١-٣)

طلب اعتماد مواد

المالك: شركة بن سينا فارما للأدوية

مقدم من: شركة ستاندرد سيستمز للهندسة والتجارة

الاستشاري: مكتب الحسني للاستشارات الهندسية

اسم وتوقيع المرسل: مهندس / أسامة النيو

اسم وتوقيع المستلم:

٥٩٢١٦٦

بتاريخ: ٢٩/٨/٢٠١٧

٢٩/٨/٢٠١٧

إصدار رقم: ٠٠

رقم النموذج: Matrial /Fire/ ALL VALVES / MEP

عنوان النموذج: محابس التحكم في شبكات الحريق

م	عدد النسخ	البيان / الوصف	المصنع	رقم المقايضة
١	٢	محابس التحكم البوابة وعدم الرجوع	LEDE	(٩)
		a)- OS&Y GATE VALVE b)- SWING CHECK VALVE		
		الجزء:		

الاستشاري المختص:	الإعتماد بواسطة:	التوقيع:	بتاريخ:
			٢٠١٧/...../.....
الملاحظات			

ج = معتمد مع ملاحظات ويعاد التقديم مرة أخرى ☐

أ = معتمد ☒

د = الطلب مرفوض ويعاد التقديم مرة أخرى ☐

ب = معتمد مع ملاحظات. يمكن للعمل أن يستمر بناء على الملاحظات ☐

اعتماد الاستشاري	م/	بتاريخ ١٧/٩/١٦
استلام المقاول	Standard systems	بتاريخ ١/١/١٧

لتوزيع قبل الاعتماد: التوزيع بعد الاعتماد

No	المالك	الاستشاري	المقاول	الاستشاري
				مدني
				معماري
				كهرباء
				تكييف
				ميكانيكا
				تخطيط

Address of Head Office: 6th October City - Rawdet Zayed- Gate (B) Building (9)

Job.: 01154440026 - 01154440027 - 01154440028 - 010055 92166 - 01005156508 - 01221000490

E-Mail: info@standardeg.com

Web.: www.Standardeg.com



مشروع جراج روكسي (عدد رقم) (لأعلى الكهروميكانيكية)

ملاحظات
تم الموانع على المراكات المقدمة بالمشروع والى ان يتم توريد
نفس الماكينات المقدمة بالمشروع بلو ازال الماكينات.

أ = معتمد ☐ ج = معتمد مع ملاحظات وبعد التقديم مرة أخرى ☐
ب = معتمد مع ملاحظات. يمكن العمل أن يمتد بناء على ملاحظات ☒ د = العقب مرفوض وبعد التقديم مرة أخرى ☐

أشياء الاستشاري مجموعة فروع المصربين للاستشارات الكهروميكانيكية	التاريخ / / 2016
استلام المقتول شركة المقاولون العرب	التاريخ / / 2016

التوزيع قبل الاعتماد : التوزيع بعد الاعتماد

No.	الملك	الاستشاري	الملك	المقاول ACCB	مفتي	معماري	كهربية	تكليف	ميكانيكا	تخطيط	Q.S

RECEIVED
5.2.2017
APPROVED
RECEIVED
RECEIVED
Signature

Sent : Feb. 19th, 2017
From : KEM Consultant
To : Eng. Sameh Kamal
Project: Lycee Voltaire - New Giza
Subject: OS & Y Gate Valve Submittal-RQ
Letter No.: (LY.V-F.F-S-06)

KEM CONSULTANT ENG. KHALED ELMAWY		KEM Electromechanical Design Valve Engineering Supervision
☐ A- APPROVED	☒ B- APPROVED AS NOTED (RESUBMIT NOT REQUIRED)	
☐ C- APPROVED AS NOTED (RESUBMIT IS REQUIRED)	☐ D- REJECTED	
Signature: <i>Amal Shaker</i> 18/2/2017		

Dear Sir,

Regarding a/m subject, kindly be inform that the technical offer for OS & Y Gate Valve submitted by contractor is Approved As Noted Code (B) and the contractor need to avoid the notes listed below before the supply and installation.

- 1- All used sizes and quantity shall be as per final approved shop drawings.
- 2- Submit sample for approval.

Approved Models:

PRODUCT	OS & Y GATE VALVE
MANUFACTURE	- LEDE (UL / FM)
MODEL	- Z45X-03
SIZE	- As Per Final Approved Shop Drawing
MATERIAL	- Ductile Iron body, sliding disc bronze, o-rings EPDM
WORKING PRESSURE	- (300 PSI) 2.1 BAR

Thanks and Regards

Attachments: OS & Y Gate Valve Submittal

APPROVED BY:	ENG.: AMAL SHAKER. <i>Amal Shaker</i> 18/2/2017
CHEKED BY:	ENG.: MOHAMED ABD ELHALEEM. <i>Amal Shaker</i> 18/2/2017





KIRMARY Company

for engineering supplies

import & export

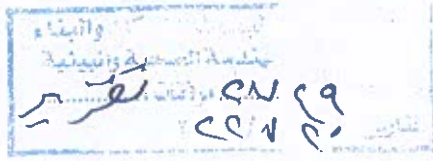
Trading agencies

LEDE[®]

SHANDONG LEDE MACHINERY CO., LTD.



Test Certificates



الساده / شركة كير ماري للتوريدات الهندسية

تحية طيبة وبعد،،،

نتشرف بأن نرفق لسيادتكم نتائج الاختبارات التي أجريت على (٢) عينة محبس سكينه مقاس "٣" ، "٤" ، وعدد (٢) عينة محبس عدم رجوع مقاس "٣" ، "٤" وذلك بناء على خطابكم الوارد إلينا برقم (٥١٢٧) بتاريخ ٢٠٢٢/٦/٢١ - لزوم مشروع تطوير منفذ السلوم البري - والتي تم توريدها بمعرفتكم

هذا وقد سددت الرسوم المقررة بموجب القسيمة برقم ٠٤٠٦٣٠٠ بتاريخ ٢٠٢٢/٦/٢١

وتفضلوا بقبول فائق الاحترام،،،

مدير معهد الهندسة الصحية والبيئية

أ.د. /

صفاء محمود راغب



نائب رئيس مجلس الإدارة

لشئون البحوث و الدراسات

أ.د. /



٥٧٨٧٢

• صلاحية هذا التقرير تسرى لمدة ثلاث شهور من تاريخ اصداره

مرفقات :

نتائج الاختبارات

تحريرا في : ٢٠٢٢/٧/١٧

مصطفى

تقرير اختبار

رقم (٢٠٢٢/١٩٩٢)

اسم المشروع : مشروع تطوير منفذ السلوم البري
نوع العينات : محابس شبكات الحريق :-

عدد ١ عينة محبس سكنية قطر ٤" موديل ١٢١٠ 300 psi
عدد ١ عينة محبس سكنية قطر ٣" موديل ١٢١١ 365 psi
عدد محبس عدم رجوع قطر ٤" موديل H44X 300 psi
عدد محبس عدم رجوع قطر ٣" موديل H84X 365 psi

توريد : شركة كير ماري للتوريدات الهندسية

عدد العينات : ٤ عينات

كود العينات : VCI 1030 - 1033

تاريخ استلام العينات : ٢٠٢٢/٠٦/٢١

تاريخ إجراء الاختبار : ٢٠٢٢/٠٦/٢٧

مواصفات الاختبارات : المواصفات القياسية ISO EN 1563 - ASTM E 10, EN 12266

تم إجراء اختبار الضغط الهيدروليكي في حضور اللجنة المشكلة من حركة مياه الشرب والصرف الصحي بالشرقية

ملاحظات عامة

- يتم الرجوع الى جميع صفحات التقرير للاطلاع على نتائج الاختبارات
- حققت العينات الموردة والموضحة بياناتها عالية الاختبارات التالية (الشدة والاستطالة - الصلادة - التحليل الكيميائي - البناء - الضغوط الهيدروليكية) بالاضافة الى المواصفات القياسية للصحة والبيئة
- هذه النتائج تسرى على العينات الموردة فقط .
- البيانات المذكورة بعالية طبقا لما جاء بخطاب الجهة طالبة الاختبار .
- مدة سريان هذا التقرير ٣ شهور ولا يسمح بنسخ هذا التقرير الا بموافقة كتابية من المركز .
- النتائج المرفقة تسري فقط على العينة المقدمة للمركز مع الاخذ في الاعتبار ان النتائج لا تسري ولا يعتد بها لاعتماد اى منتج كمي / والممارسات / والتوريدات وكذا التصدير .
- يلتزم المعمل ببنود المواصفة الدولية لاعتماد المعامل ISO 17025 من حيث سرية البيانات والشفافية والحيادية مع العملاء

مدير المعمل

مشرف المعمل

القائم بالاختبار

أ. د. /

ر. م. /

س. م. /

لميس احمد محمد

HBRC-SEI/P-F-7.8-02



نتائج الاختبارات التي أجريت على
عدد ٤ عينات محابس من الزهر المرن لشبكات الحريق

اسم المشروع : تطوير منفذ السلوم البري	
توريد : شركة كير ماري للتوريدات الهندسية	
كود العينة / VCI 1030 : 1033	
تاريخ استلام العينات : ٢٠٢٢/ ٠٦/ ٢١	تاريخ إجراء الاختبار : ٢٠٢٢/ ٠٦/ ٢٧

بناء علي خطاب شركة كير ماري للتوريدات الهندسية طلب قيام المركز بالاختبارات على عدد ٤ عينات محابس لشبكات الحريق والمصنعة من الزهر المرن طبقا للمواصفات القياسية , EN 1563

عدد ١ عينة محبس سكينه قطر ٤ " موديل ١٢١٠

عدد ١ عينة محبس سكينه قطر ٣ " موديل ١٢١١

عدد محبس علم رجوع قطر ٤ " موديل H44X

عدد محبس علم رجوع قطر ٣ " موديل H44X

تم اجراء الاختبارات الاتية بنام علي طلب العميل طبقا للمواصفات القياسية EN 1563 كما يلي :

- ١ - اختبار مقاومة الشد والاستطالة (Tensile Test & Elongation Test) .
- ٢ - اختبار الصلادة (Hardness Test) .
- ٣ - اختبار الضغط الهيدروستاتيكي (Hydrostatic test)
- ٤ - كما تم اجراء هذه الاختبارات كاختبار استرشادي حيث لم تكن المواصفات القياسية عليها:
- اختبار التحليل الكيميائي (Chemical Analysis Composition Test) .
- اختبار البنية المجهرية (Scanning Electron Microscope Laboratory) .

مدير المعمل
د / اميس احمد محمد
HBRC-SE/P-F-7.8-03

مشرف المعمل
رسائل

القائم بالاختبار
سنتاها

نتائج الاختبارات التي أجريت على

عدد ٤ عينات محابس من الزهر المرن لشبكات الحريق

اسم المشروع :	تطوير منفذ السلوم البري
توريد :	شركة كير ماري للتوريدات الهندسية
كود العينة / VCI 1030 : 1033	
تاريخ استلام العينات : ٢٠٢٢/ ٠٦/ ٢١	تاريخ إجراء الاختبار : ٢٠٢٢/ ٠٦/ ٢٧

١- اختبار مقاومة الشد و الاستطالة (Tensile & Elongation Test) :

- تم إجراء الاختبار طبقاً للمواصفات القياسية EN 1563

S. No.	TYPE	Max. Tensile Stress (N/mm ²)	Yield Stress N/mm ²	Elongation (%)
1	Gate valve 100 mm	564.2	450.5	15.30

- حدود المواصفة لمقاومة الشد للترتبة GGG 50 للمحابس ٥٠٠ نيوتن/مم^٢
- حدود المواصفة لمقاومة الشد عند الخضوع للإتقل عن ٣٢٠ نيوتن/مم^٢
- حدود المواصفة للاستطالة لا تقل عن ٧ %

النتيجة : حققت العينات المختبرة اختبارات الشد والاستطالة طبقاً للمواصفات القياسية EN 1563

٢ - اختبار الصلادة (Hardness test) :

- تم إجراء الاختبار طبقاً للمواصفات القياسية EN 1563

S. NO.	Sample No.	HB (10)
1	Gate valve 100 mm	194

- حدود المواصفة القياسية DIN EN 1563 للصلادة للترتبة GGG 50 ١٧٠ - ٢٣٠ بمقياس برينل

النتيجة : حققت العينات المختبرة اختبارات الصلادة طبقاً للمواصفات القياسية EN 1563

مدير المعمل

د / لميس احمد محمد

مشرف المعمل

رسائل

القائم بالاختبار

سبينا

HBRC-SEI/P-F-7.8-03

نتائج الاختبارات التي أجريت على
عدد ٤ عينات محابس من الزهر المرن لشبكات الحريق

اسم المشروع :	تطوير منفذ السلوم البري
توريد :	شركة كير ماري للتوريدات الهندسية
كود العينة / VCI 1030 : 1033	
تاريخ استلام العينات : ٢٠٢٢/٠٦/٢١	تاريخ إجراء الاختبار : ٢٠٢٢/٠٦/٢٧

٣- اختبار البنية المجهرية (Scanning Electron Microscope Laboratory) .

- تم عمل اختبار البنية المجهرية ومرفق نتائج هذا الاختبار بالتقرير (مرفق ١) .

٤- اختبار التحليل الكيميائي (Composition Test)

- تم عمل اختبار التحليل الكيميائي ومرفق نتائج هذا الاختبار بالتقرير (مرفق ٢) .

معهد بحوث
الهندسة الصحية
والبيئية
HBRC

تم إجراء الاختبار طبقاً للمواصفات القياسية EN 12286

م	النوع / المقاس	Pressure Nominal	حالة المحبس مفتوح	حالة المحبس مغلق	زمن الاختبار
١	Gate valve 4"	٢٠ بار	٣٠ بار	٢٢ بار	٢ دقائق
٢	Gate valve 3"	٢٠ بار	٣٨ بار	٢٨ بار	٢ دقائق
٣	Non-Return valve 4"	٢٠ بار	٣٠ بار	٢٢ بار	٢ دقائق
٤	Non-Return valve 3"	٢٥ بار	٣٨ بار	٢٨ بار	٢ دقائق

تم إجراء اختبار الضغط على عينات المحابس ولم يحدث تسريب من البدن أو الديسك .

النتيجة : اجتازت جميع العينات اختبار الضغط الهيدروستاتيكي

مدير المعمل

د / لميس احمد محمد

HBRC-SE/P-F-7.8-03

مشرف المعمل

رست علي

القائم بالاختبار

لست صاهر

نتائج الاختبارات التي أجريت على
عدد ٤ عينات محابس من الزهر المرن لشبكات الحريق

اسم المشروع :	تطوير منفذ السلوم البري
توريد :	شركة كير ماري للتوريدات الهندسية
كود العينة / VCI 1030 : 1033	
تاريخ استلام العينات : ٢٠٢٢/ ٠٦/ ٢١	تاريخ إجراء الاختبار : ٢٠٢٢/ ٠٦/ ٢٧

ملاحظات عامة

- يتم الرجوع الى جميع صفحات التقرير للاطلاع على نتائج الاختبارات
- حققت العينات الموردة والموضحه بياناتها عالية الاختبارات التالية (الشد والاستطالة - الصلادة - التحليل الكيميائي - البناء المجهرى - الضغط الهيدروستاتيكي)
- هذه النتائج تسرى على العينات الموردة فقط.
- البيانات المذكورة بعالية طبقا لما جاء بخطاب الجهة طالبة الاختبار .
- مدة سريان هذا التقرير ٣ شهور ولا يسمح بنسخ هذا التقرير الا بموافقة كتابية من المركز .
- النتائج المرفقة تسري فقط على العينة المقدمة للمركز مع الاخذ فى الاعتبار ان النتائج لا تسري ولا يعتد بها لاعتماد أى منتج كمي / والممارسات / والتوريدات وكذا التصدير .
- يلتزم المعمل ببند المواصفة الدولية لاعتماد المعامل ISO 17025 من حيث سرية البيانات والشفافية والحيادية مع العملاء

مدير المعمل

د / لميس احمد محمد

HBRC-SEI/P-F-7.8-03



مشرف المعمل

سما على

القائم بالاختبار

سيف احمد

TEST CERTIFICATE

Certificate No : MCL / 3122001G/B
Customer Name : شركة كيرمارى للتوريدات الهندسية والاستيراد والتصدير والتوكيلات التجارية
Customer Address : 15 شارع خالد ابن الوليد- شيراتون هليوبليس- القاهرة
Project Name : مشروع R5 بالعاصمة الادارية الجديدة و مشاريع العاصمة الادارية الجديدة ومشاريع العلمين الجديدة
Presented To : ECG
Sample Description : 4 inch OS&Y gate valve lede brand- UL/FM – (model 1210)
- 4 inch check valve lede brand- UL/FM- (model H44X) Samples
(prepared by the customer) .
Test Description : Hydrostatic test up to 25 bar
Test Duration : two hours
Received Date : 08/11/2020
Date of Test : 09/11/2020

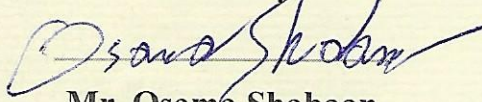
Test Result :-

The sample withstand hydrostatic pressure up to 25 bar for two hours without observing any leakage or cracks from the sample body.

N.B.

- These results are only applicable for the sample supplied to the lab.

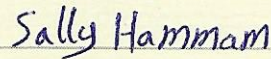
Tested by



Mr. Osama Shabaan

Lab Supervisor

Reviewed by



Eng. Sally Hammam

Technical Manager

Approved by



Dr. Prof. T. W. Abou Arab

MCL Director

Issue Date : 09/11/2020



NATIONAL RESEARCH CENTRE
TAHRIR St. DOKKI, CAIRO, EGYPT
Central Unit For Analysis And
Scientific Services (CUASS)
Material Test Lab.

المركز القومي للبحوث

الدقى . القاهرة . جمهورية مصر العربية
وحدة التحاليل والخدمات العلمية المركزية
معمل اختبار المواد



تقرير الاختبارات

رقم التقرير	MOI 7635 04 2017
إسم الشركة أو العميل	شركة كيرمارى للتوريدات الهندسية والإستيراد والتصدير والتوكيلات التجارية
تاريخ الطلب	٢٠١٧/٤/١٢
المنتج المطلوب إختباره	طلب إجراء اختبار الضغط على عدد (٢) عينة محبس مياه (OS&Y Gate valve 3" LEDE UL.FM)(Check valve 3" LEDE UL.FM) ، لزوم مشروع الكيان ١١٠ Minister of Defense (ض ٤٠٠بار)
المواصفات المستخدمة	طبقا المصرية رقم ٢٠٠٥/٩٧١
النتائج	جميع نتائج الاختبارات مدونة ومبينة بالتفصيل فى صفحات التقرير المرفقة (عدد صفحات التقرير ٥ صفحات) .
الفريق العامل	كيميوتز / ابتسام سيد محمود كيميوتز/ نجلاء محمد عبد السميع كيميوتز/ نهى سمير ربيع محمد كيميوتز/ سارة عبد الرحيم اسماعيل
القائمون بالتشغيل والاختبارات	هندسة مساعد / فاطمة الزهراء فكري هندسة مساعد / احمد سيد ابراهيم كيميائى / عمرو عبد الرحمن الشافعى
أشراف	أ.د/مطفى زكى مصطفى أ.د/ أبو الفتوح عبد المنعم عبد الحكيم
المدير المسئول	الأستاذ الدكتور / مصطفى زكى مصطفى رئيس مجلس إدارة وحدة التحاليل والخدمات العلمية المركزية ورئيس قسم السيراميك والبلاستيك والمواد العلبة وممثل الإدارة العليا ومدير الجودة بالوحدة
تاريخ الإصدار	٢٠١٧/٤/١٦
ظروف التشغيل والاختبارات	كل -الاختبارات قد تمت عند ٢٣ م° ودرجة رطوبة ما بين ٥٠ - ٦٠% مع إجراء جميع المعايير اللازمة لأجهزة القياس بصفة دائمة ومستمرة



(٧٦٣٥-٥/١)

شارع التحرير - الدقى - القاهرة

١٣٢١ مباشر : ٣٣٣٨٧٨٠٣
١٠٨٤ وفاكس

E-mail: nrc1302a@yahoo.com

٣٣٣٧١٣٦٢ - ٣٣٣٧١٦١٥
٣٣٣٥٥١٩٢ - ٣٧٦٠٧٥٤١





NATIONAL RESEARCH CENTRE
TAHRIR St. DOKKI, CAIRO, EGYPT
Central Unit For Analysis And
Scientific Services (CUASS)
Material Test Lab.

المركز القومي للبحوث

الدقى . القاهرة . جمهورية مصر العربية
وحدة التحاليل والخدمات العلمية المركزية
معمل اختبار المواد



السادة/ شركة كيرمارى للتوريدات الهندسية والإستيراد والتصدير

والتوكيلات التجارية

تحية طيبة ... وبعد ...

بالإشارة إلى خطابكم بتاريخ ٢٠١٧/٤/١٦ بشأن إجراء اختبار الضغط على عدد (٢) عينة

محبس (Check valve 3" LEDE UL.FM)، (OS & Y Gate valve 3" LEDE UL.FM)

، لزوم مشروع الكيان ١١٠ Minister of Defense (ض. ٤٠ بار)، طبقا للمواصفة المصرية رقم

. ٢٠٠٥/٩٧١

و فيما يلى جميع النتائج الكلية للاختبارات التى تمت على العينات الواردة علما بأن هذه

النتائج تمثل فقط العينات الواردة الى قسم السبراميك والبلاستيك والمواد العظيمة بمعمل

اختبار المواد بالمركز القومى للبحوث .



(٧٦٣٥-٥/٢)

شارع التحرير - الدقى - القاهرة

١٢٢١ مباشر : ٢٢٢٨٧٨٠٣
داخلى ١٠٨٤ وفاكس

٢٢٣٧١٣٦٢ - ٢٢٣٧١٦١٥
٢٢٣٥٥١٩٢ - ٢٢٦٠٧٥٤١



E-mail: nrc1302a@yahoo.com



NATIONAL RESEARCH CENTRE
TAHRIR St. DOKKI, CAIRO, EGYPT
 Central Unit For Analysis And
 Scientifical Services (CUASS)
 Material Test Lab.

المركز القومي للبحوث

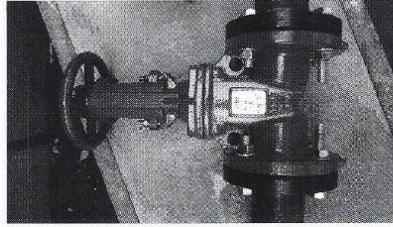
الدقى . القاهرة . جمهورية مصر العربية
 وحدة التحاليل والخدمات العلمية المركزية
 معمل اختبار المواد



نتائج اختبار الضغط طبقا للمواصفة المصرية رقم ٩٧١

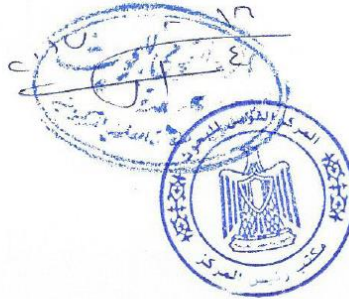
على عينة محبس مياه OS & Y Gate valve 3" LEDE UL.FM

والواردة من شركة كيرمارى للتوريدات الهندسية والإستيراد والتصدير والتوكيلات التجارية



المحبس المختبر (قطر ٣)	الضغط الاسمى	ضغط الاختبار (كجم/سم ^٢)	زمن الاختبار (ثانية)	ملاحظات
المحبس مغلق	PN 16	١٦	٦٠	اجتازت
المحبس مفتوح		٢٤	٦٠	اجتازت

وتم رفع الضغط الى ٤٠ بار و لم يحدث للمحبس المفتوح اي تسريب او اتباعاج بجسم المحبس



(٧٦٣٥-٥/٣)

شارع التحرير - الدقى - القاهرة

١٣٢١ مباشر : ٣٣٣٨٧٨٠٣
 داخلى ١٠٨٤ وفاكس

٣٣٣٧١٣٦٢ - ٣٣٣٧١٦١٥
 ٣٣٣٥٥١٩٢ - ٣٧٦٠٧٥٤١



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المركز القومي للبحوث

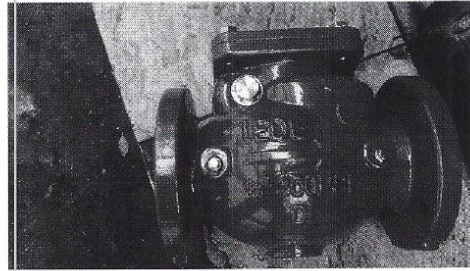
الدقى . القاهرة . جمهورية مصر العربية
 وحدة التحاليل والخدمات العلمية المركزية
 معمل اختبار المواد



نتائج اختبار الضغط طبقا للمواصفة المصرية رقم ٩٧١

على عينة محبس مياه Check valve 3" LEDE ULFM

والواردة من شركة كيرمارى للتوريدات الهندسية والإستيراد والتصدير والتوكيلات التجارية



المحسب المختبر (قطر ٣)	الضغط الاسمى	ضغط الاختبار (كجم/سم ^٢)	زمن الاختبار (ثانية)	ملاحظات
المحسب مغلق	PN 16	١٦	٦٠	اجتازت
المحسب مفتوح		٢٤	٦٠	اجتازت

وتم رفع الضغط الى ٤٠ بار و لم يحدث للمحسب المفتوح اي تسريب او انبعاث بجسم المحسب



(٧٦٣٥-٥/٤)

شارع التحرير - الدقى - القاهرة

داخلى ١٣٢١
 مباشر: ٣٣٢٨٧٨٠٣
 وفاكس ١٠٨٤

٣٣٣٧١٣٦٢ - ٣٣٣٧١٦١٥
 ٣٣٣٥٥١٩٢ - ٣٧٦٠٧٥٤١



E-mail: nrc1302a@yahoo.com



NATIONAL RESEARCH CENTRE
TAHRIR St. DOKKI, CAIRO, EGYPT
 Central Unit For Analysis And
 Scientifical Services (CUASS)
 Material Test Lab.

المركز القومي للبحوث

الدقى . القاهرة . جمهورية مصر العربية
 وحدة التحاليل والخدمات العلمية المركزية
 معمل اختبار المواد



ولقد أعطى لكم هذا التقرير بناء على طلبكم ممثلاً فقط نتائج اختبار الضغط على عدد (٢) عينة
 محبس مياه (OS&Y Gate valve 3" LEDE UL.FM)، (Check valve 3" LEDE UL.FM)
 ، لزوم مشروع الكيان ١١٠ Minister of Defense (ض.٤٠ بار) ، والوارد من شركة كيرمارى
 للتوريدات الهندسية والإستيراد والتصدير والتوكيلات التجارية، ودون أننى مسئولية تجاه قسم
 السيراميك والبلاستيك والمواد الصلبة بمعمل اختبار المواد بالمركز القومى للبحوث فى تحديد
 و انتقاء العينات المرسله للاختبار علما بأن نتائج هذا التقرير تمثل فقط العينات و لا تمثل أى حال
 من الاحوال أى نوعية مماثلة ومخزنة ومشونة بمواقع التطبيق والتنفيذ والاستخدام .
 ولا يجوز استخدام هذا التقرير فى الدعاية والإعلان عن المنتج المختبر الا بعد الرجوع الى
 المركز القومي للبحوث والاتفاق على ذلك .

مع ملاحظة ألا يتم نقل وتصوير هذا التقرير بما يشمله من نتائج إلا متكاملاً وموافقة مسبقة
من قسم السيراميك والبلاستيك والمواد الصلبة بمعمل اختبار المواد بالمركز القومى
للبحوث بالقاهرة .

رئيس مجلس إدارة وحدة التحاليل والخدمات العلمية

معمل اختبار المواد



أ.د. مصطفى زكى مصطفى



(٧٦٣٥-٥/٥)

شارع التحرير - الدقى - القاهرة

١٣٢١ مباشر : ٣٣٣٨٧٨٠٣
 داخلى ١٠٨٤ وفاكس

E-mail: nrc1302a@yahoo.com

٣٣٣٧١٣٦٢ - ٣٣٣٧١٦١٥
 ٣٣٣٥٥١٩٢ - ٣٧٦٠٧٥٤١





كلية الهندسة - جامعة القاهرة
المجموعة الإستشارية للمشروعات
معمل القياسات والمعايرة



شهادة معايرة



ISO 9001
ISO / IEC 17025
Certified QMS

الجودة هى محصلة القياسات الدقيقة

فakelفة الشفك زافء (وأة الأزو) :
كلفة الهندسة - جامعة القاهرة
الشفك زافء - الءى الأول
ألفاكس : ٣٨٥٠٧٠٦٤ (٢٠٢) + - مءمول : ٠١٠٠٦٠٤٤٦٧٧
برفء إلكأرونف: pcg.mcl_zayed@yahoo.com

المقر الرنفسى (الجفزة)
كلفة الهندسة - جامعة القاهرة - امام مساء الكلية
أ : ٣٥٦٧٨٤٩٥ - ٣٥٦٧٨٥٤٦ - ٣٥٧٣٩٨٥٥ (٢٠٢) +
فأكس : ٣٥٧٠٢٦٨٧ (٢٠٢) +
برفء إلكأرونف : pcg_mcl@yahoo.com



TEST CERTIFICATE

Certificate No : MCL / 1451701G/B
Customer Name : شركة كيرمارى للتوريدات الهندسية والاستيراد والتصدير والتوكيلات التجارية
Customer Address : ١٥ شارع خالد ابن الوليد- شيراتون هليوبليس- القاهرة
Project Name : مشروع الكيان بالعاصمة الادارية الجديدة- 110 Ministry of Defense
Consultant Name : SABBOUR للاستشارات الهندسية و مكتب دكتور شاكرا للاستشارات الهندسية
Sample Description : 3" Check valve Sample (prepared by the customer) brand : LEDE
UL.FM, H44X NO: QC000051528
Test Description : Hydrostatic test up to 360 psi tested in the full open and full closed position
Test Duration : 90 minuets
Received Date : 25/05/2017
Date of Test : 06/06/2017

Test Result :-

The sample withstand hydrostatic pressure up to 360 psi at full open and full closed position
Test duration was 90 minuets .No leakage from the sample body and no sample cracks are observed.

N.B.

- These results are only applicable for the sample supplied to the lab.

Tested by

Mr .Osama Shabaan

Lab Technician

Reviewed by

Eng. Sally Hammam

Technical Manager

Approved by

Dr. Prof. T. W. Abou Arab
MCL Director



TEST CERTIFICATE

Certificate No : MCL / 1451701G/A
Customer Name : شركة كيرمارى للتوريدات الهندسية والاستيراد والتصدير والتوكيلات التجارية
Customer Address : ١٥ شارع خالد ابن الوليد- شيراتون هليوبليس- القاهرة
Project Name : مشروع الكيان بالعاصمة الادارية الجديدة- 110 Ministry of Defense
Consultant Name : SABBOUR للاستشارات الهندسية و مكتب دكتور شاكى للاستشارات الهندسية
Sample Description : 3" Gate valve OS&Y Sample (prepared by the customer) brand : LEDE UL.FM, NO: 000288
Test Description : Hydrostatic test up to 300psi tested in the full open and full closed position
Test Duration : 90 minuets
Received Date : 25/05/2017
Date of Test : 06/06/2017

Test Result :-

The sample withstand hydrostatic pressure up to 300 psi at full open and full closed position
Test duration was 90 minuets .No leakage from the sample body and no sample cracks are observed.

N.B.

- These results are only applicable for the sample supplied to the lab.

Tested by

Mr .Osama Shabaan

Lab Technician

Reviewed by

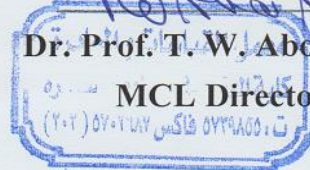
Eng. Sally Hammam

Technical Manager

Approved by

Dr. Prof. T. W. Abou Arab

MCL Director





KIRMARY Company

for engineering supplies

import & export

Trading agencies

LEDE[®]

SHANDONG LEDE MACHINERY CO., LTD.



Zone Control



OSYSU-1, -2

OUTSIDE SCREW AND YOKE VALVE SUPERVISORY SWITCH

Potter Electric Signal Company
2081 Craig Road • St. Louis, MO 63146-4161
(314) 878-4321 • (800) 325-3936
www.pottersignal.com

Potter Electric Signal & Mfg., LTD.
55 Glen Cameron Road
Thornhill, Ontario, Canada L3T 1P2
(905) 882-1833



OSYSU-1 Stock No. 1010106
OSYSU-2 Stock No. 1010206

**UL and CSFM LISTED, FM APPROVED and NYMEA
ACCEPTED**

Dimensions: 6.19"L X 2.25"W X 5.88"H
15.7cm L X 5.7cm W X 14.6cm H

Weight: 2 lbs (.9 kg)

Enclosure: Cover - Die-Cast
Finish - Red Spatter Enamel
Base - Die Cast Zinc
All parts have corrosion resistant finishes

Cover Tamper: Tamper resistant screws,
Optional cover tamper kit available.

Contact Ratings:
OSYSU-1: One set of SPDT (Form C)
OSYSU-2: Two sets of SPDT (Form C)
15.00 Amps at 125/250VAC
2.50 Amps at 30VDC resistive

Environmental Limitations:
-40°F to 140°F (-40°C to 60°C)
NEMA 4 and NEMA 6P Enclosure (IP67)
Indoor or outdoor use (Not for use in hazardous
locations. See Bulletin No. 5400705 OSYS-U-EX
for hazardous locations).

Conduit Entrances:
2 knockouts for 1/2" conduit provided

Service Use:
Automatic Sprinkler NFPA-13
One or two family dwelling NFPA-13D
Residential occupancy up to four stories NFPA-13R
National Fire Alarm Code NFPA-72

GENERAL INFORMATION

The OSYSU is used to monitor the open position of an OS & Y (outside screw and yoke) type gate valve. This device is available in two models; the OSYSU-1, containing one set of SPDT (Form C) contacts and the OSYSU-2, containing two sets of SPDT (Form C) contacts. These switches mount conveniently to most OS & Y valves ranging in size from 2" to 12". They will mount on some valves as small as 1/2".

The cover is held in place by two tamper resistant screws that require a special tool to remove. The tool is furnished with each device and should be left with the building owner or responsible party. Replacement or

additional cover screws and hex keys are available. See ordering information on page 4.

OPTIONAL COVER TAMPER SWITCH

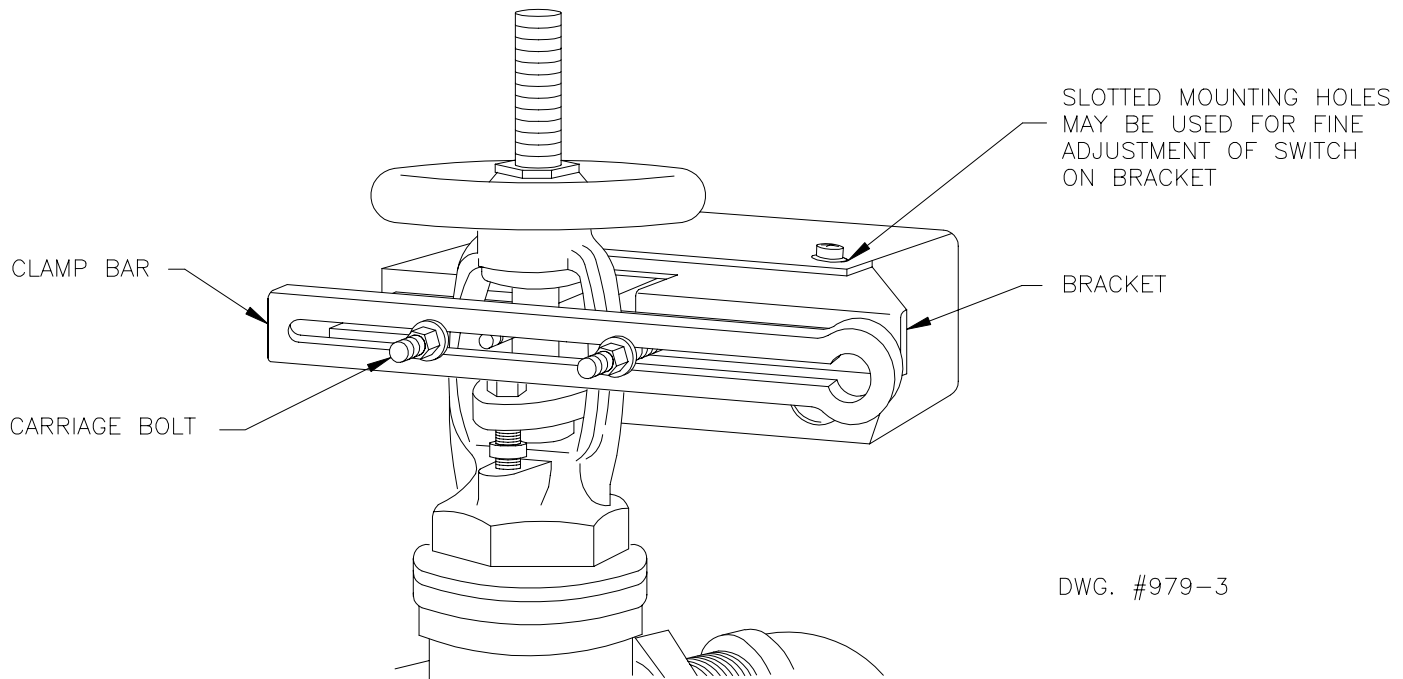
A field installable cover tamper switch is available as an option which may be used to indicate removal of the cover. See ordering information on page 4.

TESTING

The OSYSU and its associated protective monitoring system should be inspected and tested in accordance with applicable NFPA codes and standards and/or the authority having jurisdiction (manufacturer recommends quarterly or more frequently).

FIG. 1 SMALL VALVE INSTALLATION - 1/2" THRU 2 1/2" SIZES

THESE SWITCHES MOUNT CONVENIENTLY TO MOST 2" TO 12" OS & Y VALVES. THEY WILL MOUNT ON SOME VALVES AS SMALL AS 1/2". J-HOOKS MAY BE REQUIRED ON VALVES WITH LIMITED CLEARANCE.



SMALL VALVE INSTALLATION

1. Remove and discard "C" washer and roller from the trip rod.
2. With the valve in the FULL OPEN position, locate the OSYSU across the valve yoke as far as possible from the valve gland, so that the trip rod lays against the non-threaded portion of the valve stem.
3. Loosen the locking screw that holds the trip rod in place and adjust the rod length (see Fig. 4). When adjusted properly, the rod should extend past the valve screw, but not so far that it contacts the clamp bar. Tighten the locking screw to hold the trip rod in place.

NOTE: If trip rod length is excessive, loosen the locking screw and remove the trip rod from the trip lever. Using pliers, break off the one (1) inch long notched section (see Fig. 5). Reinstall trip rod and repeat Step 3 procedure.

4. Mount the OSYSU loosely with the carriage bolts and clamp bar supplied. On valves with limited clearance use J-hooks supplied instead of the carriage bolts and clamp bar to mount the OSYSU.
5. Mark the valve stem at the center of the trip rod.

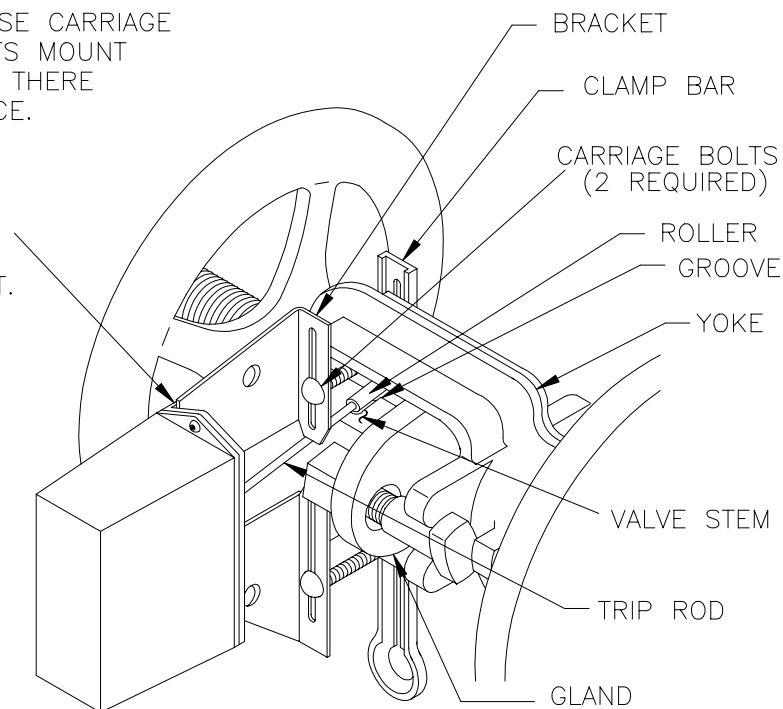
6. Remove the OSYSU. File a 1/8" deep groove centered on the mark on the valve stem utilizing a 3/16" diameter straight file. Round and smooth the edges of the groove to prevent damage to the valve packing and to allow the trip rod to move easily in and out of the groove as the valve is operated.
7. Mount the OSYSU with the trip rod centered in groove.
8. Final adjustment is made by loosening 2 screws (see Fig. 1) and sliding the OSYSU on the bracket. Adjustment is correct when switches are not activated with the trip rod seated in the valve stem groove and that the switches activate when the trip rod moves out of the groove.
9. Tighten the adjustment screws and all mounting hardware. Check to insure that the rod moves out of the groove easily and that the switches activate within one turn when the valve is operated from the FULL OPEN towards the CLOSED position.

NOTE: CLOSE THE VALVE FULLY TO DETERMINE THAT THE STEM THREADS DO NOT ACTIVATE THE SWITCH. THE SWITCH BEING ACTIVATED BY THE STEM THREADS COULD RESULT IN A **FALSE VALVE OPEN** INDICATION.

FIG. 2 LARGE VALVE INSTALLATION - 3" THRU 12" SIZES

3" THRU 12" VALVES USE CARRIAGE BOLTS. CARRIAGE BOLTS MOUNT ON INSIDE OF YOKE, IF THERE IS SUFFICIENT CLEARANCE.

SLOTTED MOUNTING HOLES. MAY BE USED FOR FINE ADJUSTMENT OF SWITCH ON BRACKET.



DWG. #979-4

LARGE VALVE INSTALLATION

1. With the valve in the FULL OPEN position, locate the OSYSU across the valve yoke as far as possible from the valve gland, so that the trip rod lays against the non-threaded portion of the valve stem.
 2. Mount the OSYSU loosely with the carriage bolts and clamp bar supplied.
 3. Loosen the locking screw that holds the trip rod in place and adjust the rod length (see Fig. 4). When adjusted properly, the rod should extend past the valve screw, but not so far that it contacts the clamp bar. Tighten the locking screw to hold the trip rod in place.
- NOTE:** If trip rod length is excessive, loosen the locking screw and remove the trip rod from the trip lever. Using pliers, break off the one (1) inch long notched section (see Fig. 5). Reinstall trip rod and repeat Step 3 procedure.
4. Mark the valve stem at the center of the trip rod.
 5. Remove the OSYSU. File a 1/8" deep groove centered on the mark of the valve stem utilizing a 3/8" diameter straight file. Round and smooth the edges of the groove to prevent

damage to the valve packing and to allow the trip rod to move easily in and out of the groove as the valve is operated.

6. Mount the OSYSU loosely with the trip rod centered in groove.
7. Final adjustment is made by loosening 2 screws (see Fig. 2) and sliding the OSYSU on the bracket. Adjustment is correct when switches are not activated with the trip rod seated in the valve stem groove and that the switches activate within one turn when the valve is operated from the FULL OPEN towards the CLOSED position.
8. Tighten the adjustment screws and mounting hardware. Check to insure that the rod moves out of the groove easily and that the switches activate within one turn when the valve is operated from the FULL OPEN towards the CLOSED position.

NOTE: CLOSE THE VALVE FULLY TO DETERMINE THAT THE STEM THREADS DO NOT ACTIVATE THE SWITCH. THE SWITCH BEING ACTIVATED BY THE STEM THREADS COULD RESULT IN A **FALSE VALVE OPEN** INDICATION.

FIG. 3 DIMENSIONS

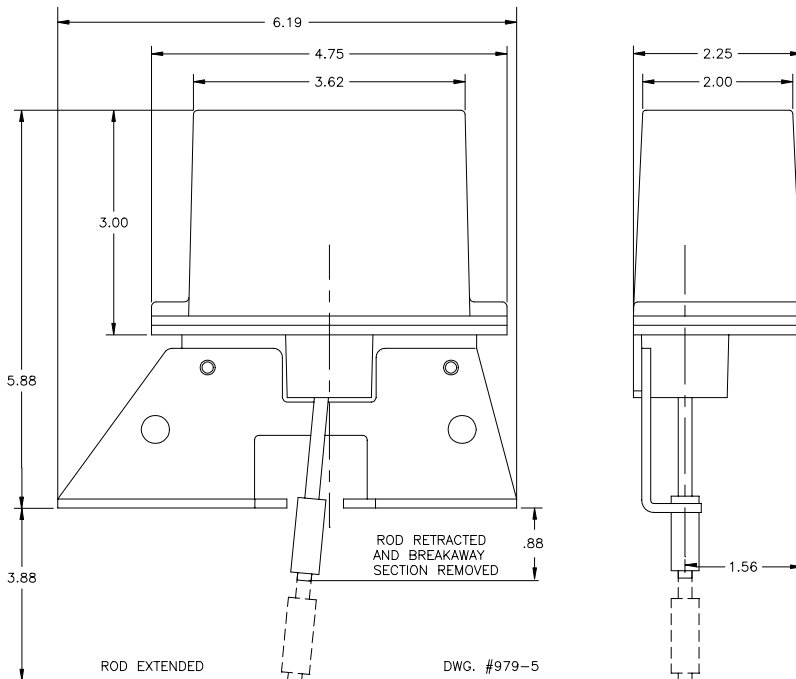
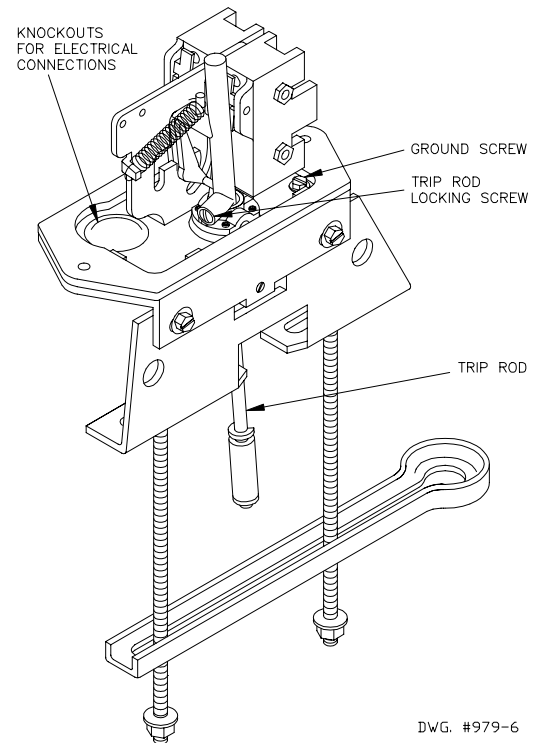
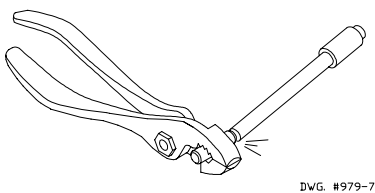


FIG. 4 PARTS

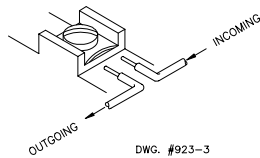


BREAKING EXCESSIVE ROD LENGTH

FIG. 5

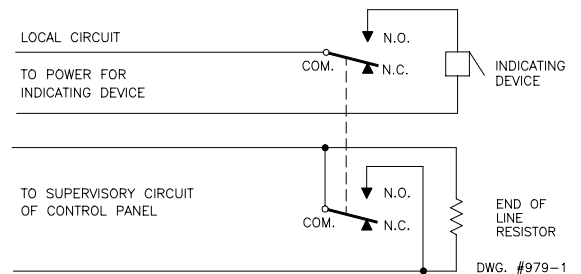


SWITCH TERMINAL CONNECTIONS CLAMPING PLATE TERMINAL



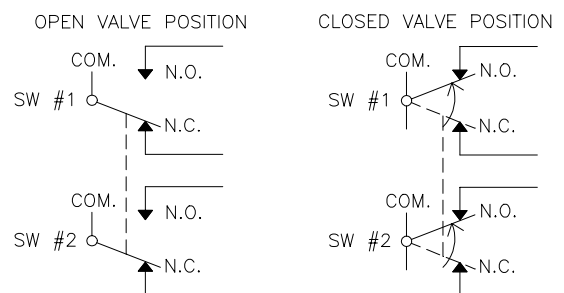
CAUTION:
An uninsulated section of a single conductor should not be looped around the terminal and serve as two separate connections. The wire must be severed, thereby providing supervision of the connection in the event that the wire becomes dislodged from under the terminal.

TYPICAL ELECTRICAL CONNECTIONS



Contacts shown in normal (valve open) condition.

TYPICAL SWITCH ACTION



DWG. #979-2

ORDERING INFORMATION

MODEL	DESCRIPTION	STOCK NO.
OSYSU-1	Outside Screw & Yoke-Supervisory Switch (Single switch)	1010106
OSYSU-2	Outside Screw & Yoke-Supervisory Switch (Double switch)	1010206
--	Cover Screw	5490293
--	Hex Key for Cover Screws and Installation Adjustments	5250062
--	Optional Cover Tamper Switch Kit	0090131

For pressure reducer type valve installation kits (if required) contact valve manufacturer.

Electrical Signaling

Electrical protective signaling systems are configurations of components used to produce alarm signals indicative of fire, smoke, sprinkler waterflow or other emergency and to produce supervisory signals indicative of conditions needing attention with respect to protection equipment or watch service. System configurations are classified according to where and how the signals are received. The categories are commonly designated as local, municipal, remote station, proprietary, emergency voice/alarm communication, emergency communication, and central station. Auxiliary systems are either local or proprietary systems interconnected with a municipal system.

This category presents the major system component categories and the integrated system configurations. The selection of components to form a hybrid system should be made only by those skilled in system design. Also, the suitability of any system application should be judged on the basis of the hazard(s) being protected.

Supervisory Signal Initiating Devices

Supervisory signals indicate non-alarm conditions affecting important parts of a protection system or timed watchman tours. Normal/abnormal functions are monitored by these switches and switch-actuated transmitters.

Sprinkler System Supervision – Standard Security

Examples of sprinkler supervisory functions are control valve position, tank pressure, tank level, tank temperature, air pressure, fire pump power and fire pump operation.

Models OSYS-B, OSYSU-1, OSYSU-2

Gate Valve Switch. Models OSYS-B, OSYSU-1, OSYSU-2. For supervising open position of an OS&Y type gate valve. Contacts are rated for 15 A at 125/250 V ac and 2.5 A at 0-30 V dc. For indoor or outdoor (NEMA 4) use in ambient temperatures of -40° to 140°F (-40° to 60°C).

Company Name:	Potter Electric Signal Company
Company Address:	1609 Park 370 Place, Hazelwood, Missouri 63042, USA
Company Website:	http://pottersignal.com
New/Updated Product Listing:	No
Listing Country:	United States of America
Certification Type:	FM Approved

USQT7.S309 - Extinguishing System Attachments Certified for Canada

Extinguishing System Attachments Certified for Canada

POTTER ELECTRIC SIGNAL CO L L C

1609 PARK 370 PL

HAZELWOOD, MO 63042-4417 United States

S309

Supervisory signal initiating devices, valve supervisory switches, Models PTS-B, PTS-C plug type switches-special applications. Models BVS-1", -3/4", -1/2" Supervised trim valves..

Model RBVS Retro-fit Ball Valve Supervisory Switch.

Supervisory Water Temperature devices, Models TTS-W, TTS-W for steel or wood tanks, indoor or outdoor use.

Supervisory Air Temperature devices, Models RTS-C, RTS-O, for indoor use.

Water supply valve position signals, Models PCVS-1 and PCVS-2, Contact rating: 10.0A at 125/250 V ac, 2.0 A at 30VDC Resistive, 10 mA minimum at 24 VDC 15 A; **Models OSYSU-1 and OSYSU-2,** Contact rating: 10.0A at 125/250 V ac, 2.0 A at 30VDC Resistive, 10 mA minimum at 24 VDC; Model PTS-B, Contact rating: 28 V ac-dc, 0.25 A; Model PMS, Contact rating: 24 V ac-dc, 0.15 A; 120 V dc, 0.1 A.

Wet-pipe sprinkler system attachments, Waterflow indicators (vane type), Models VS-SP, VS-SPB, VSR-F, Contact rating: 125/250 V ac, 15 A; 125 V dc, 0.5 A; 250 V dc, 0.25 A; Model VSR-SF, Contact rating: 125/250 V ac, 10 A, 0-30 V dc, 2 A.

SPRINKLER SYSTEM ALARM INITIATING DEVICES DRY-PIPE & WET-PIPE, PRESSURE TYPE

Model	Oper Pressure psig	Max System Pressure psig
PS-10	0-20	300
PS-10A	4-8	300
PS10-1	4-15	300
PS10-1A	4-20	250
PS10-2	4-15	300
PS10-2A	4-20	250
PS10-1 w/Brass Bushing	4-15	300
PS10-2 w/Brass Bushing	4-15	300
PS-100	20-225	300
PS-100A	20-175	300
PS100-2	25-175	300
PS100-2A	20-225	300
WFS-B	10	250
WFSPDB	100	250

WFSR-F	4-8	175
QRS	10-65	175

**SUPERVISORY SIGNAL INITIATING DEVICES
PRESSURE DEVICES**

Model	Oper Pressure psig	Max System Pressure psig
PS-40	20-225	300
PS15-2	5-30	300
PS-40A	20-175	300
PS40-1	10-60	300
PS40-1A	20-175	300
PS40-2A	20-175	300
PS25-2	10-60	300
PS40-2	10-60	300
PS40-1 w/Brass Bushing	10-60	300
PS40-2 w/Brass Bushing	10-60	300
HLS-B	40	250
PS-120	20-225	300
PS-120A	20-175	300
PS120-1	25-175	300
PS120-1A	20-175	300
PS120-2	25-175	300
PS120-2A	20-175	300
PS120-1 w/Brass Bushing	35-225	300
PS120-2 w/Brass Bushing	35-225	300
EPS10EXP	4-20	250
EPS40EXP	10-100	250
EPS120EXP	10-200	250
EPS10-1	4-20	300
EPS10-2	4-20	300
EPS120-1	10-200	300
EPS120-2	10-200	300

Sprinkler System Alarm initiating Devices Wet pipe, Paddle Type

Model	Size In.	Pipe Schedule	Max System Pressure psig
--------------	---------------------	--------------------------	-------------------------------------

VSR-SFG, VSR-SFT, VSR-ST, VSR-SG	1, 1-1/4, 1-1/2, 2	Listed Plastic	250
VSR-F, VSR-FE, VSR-FE-2, VS-F	2, 2-1/2, 3,	10-40	450
	3-1/2, 4, 5,	Steel	
VSR-S, VSR-S (EU)	1, 1-1/4, 1-1/2, 2	10-40 Steel	300
		Listed Plastic	
		K, L, M Copper	
VSR-SF, VS-SP, VS-SPB	1, 1-1/4, 1-1/2, 2	10-40 Steel	250
		Listed Plastic	
		K, L, M Copper	
VSR-CF, VSR-C	2, 2-1/2, 3,	Listed Plastic	175
	2, 2-1/2, 3, 4	K, L, M Copper	
VSR, VSR-CR	2, 2-1/2, 3, 3-1/2,	10-40 Steel	450
	4, 5, 6, 8, 10		
VSR-AT	2, 2-1/2, 3, 3-1/2,	10-40 Steel	450
	4, 5, 6, 8		
VSR-EU	2, 2-1/2, 3, 4, 5, 6, 8	10-40 Steel	450
VSG	2, 2-1/2, 3, 4	Water Mist	450
WFD20EXP	2	10-40 Steel	450
WFD25EXP	2.5	10-40 Steel	450
WFD30-2EXP	3	10-40 Steel	450
WFD35EXP	3.5	10-40 Steel	450
WFD40EXP	4	10-40 Steel	450
WFD50EXP	5	10-40 Steel	450
WFD60EXP	6	10-40 Steel	450
WFD80EXP	8	10-40 Steel	450

Wet-pipe sprinkler system attachments: Water-flow indicators (paddle type), suitable for indoor and outdoor installation shipped without "U" bolts and nuts to Victaulic customer. Models may be single or bulk-packaged. The packing cartons will also include the assigned Victaulic Part Code on the exterior.

Model WFD20VN with Victaulic Part Code CXS020747020.

Model WFD25VN with Victaulic Part Code CXS024747022.

Model WFD30VN with Victaulic Part Code CSX030747N23.

Model WFD40VN with Victaulic Part Code CXS040747025.

Model WFD60VN with Victaulic Part Code CXS060747027.

Wet-pipe sprinkler system attachments: Water-flow indicators (paddle type):

Model	Size In.	Pipe Schedule	Max Working Pressure psig
WFD20VN	2	Victaulic Risers	450
WFD25VN	2-1/2	Victaulic Risers	450
WFD30VN	3	Victaulic Risers	450
WFD40VN	4	Victaulic Risers	450
WFD60VN	6	Victaulic Risers	450
WFD20N, WFD20NA	2	7, 10, 40	450
WFD25N, WFD25NA	2-1/2	7, 10, 40	450
WFD30N, WFD30NA	3	7, 10, 40	450
WFD40N, WFD40NA	4	7, 10, 40	450
WFD50N, WFD50NA	5	10, 40	450
WFD60N, WFD60NA	6	10, 40	450
WFD80N, WFD80NA	8	10, 40	450
WFDTN, WFDTNA, WFDTVN, WFDTNRN, RFDTHN	Threaded Brass or steel: 1, 1-1/4, 1-1/2, 2 Copper Sweat Tees: 1, 1-1/4, 1-1/2, 2 Tyco, Spears, Victaulic and NIBCO brand Chlorinated Polyvinyl Chloride: 1		375
WFDNFS, WFDNFSA	SPEARS brand Chlorinated Polyvinyl Chloride: 1, 1-1/4, 1-1/2, 2 NIBCO brand Chlorinated Polyvinyl Chloride: 1, 1-1/4, 1-1/2, 2 TYCO brand Chlorinated Polyvinyl Chloride: 1, 1-1/4, 1-1/2, 2 IPEX brand Chlorinated Polyvinyl Chloride: 1, 1-1/4, 1-1/2, 2		175
WFDNFT, WFDNFTA	Steel/Brass Threaded: 1, 1-1/4, 1-1/2, 2 Copper Sweat Tees: 1, 1-1/4, 1-1/2, 2 NIBCO brand Chlorinated Polyvinyl Chloride: 1 "CPVC SPEARS w/Metal Band": 1, 1-1/2 "CPVC SPEARS w/Brass Insert": 1 TYCO brand Chlorinated Polyvinyl Chloride: 1		175

The WFD Series waterflow indicators employ an enclosure that was evaluated for Type NEMA 4/IP 54 rating.

Model VS-SP, VS-SPB for outdoor use with Kit No. 1940037. Models VS-F, VSR-F, VSR-CF, VSR-C, VSR-FE, VSR-FE-2 for outdoor use with Kit No. 1940036.

Accessory, Cover Tamper Switch Kit, Model PSCTSK for use with the PS Series Pressure Switches.

Trademark and/or Tradename:  **Safe Signal™**

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Specifications subject to change without notice.

Ordering Information			
Nominal Pipe Size		Model	Part Number
2"	DN50	VSR-2	1144402
2 1/2"	DN65	VSR-2 1/2	1144425
3"	DN80	VSR-3	1144403
3 1/2"	-	VSR-3 1/2	1144435
4"	DN100	VSR-4	1144404
5"	-	VSR-5	1144405
6"	DN150	VSR-6	1144406
8"	DN200	VSR-8	1144408

Optional: Cover Tamper Switch Kit, stock no. 0090148

Replaceable Components: Retard/Switch Assembly, stock no. 1029030

UL, CUL and CSFM Listed, FM Approved, LPCBA Approved, For CE Marked (EN12259-5) / VdS Approved model use VSR-EU

Service Pressure: 450 PSI (31 BAR) - UL

Flow Sensitivity Range for Signal:

4-10 GPM (15-38 LPM) - UL

Maximum Surge: 18 FPS (5.5 m/s)

Contact Ratings: Two sets of SPDT (Form C)
10.0 Amps at 125/250VAC
2.0 Amps at 30VDC Resistive
10 mAmps min. at 24VDC

Conduit Entrances: Two knockouts provided for 1/2" conduit.
Individual switch compartments suitable for dissimilar voltages.

Environmental Specifications:

- NEMA 4/IP54 Rated Enclosure suitable for indoor or outdoor use with factory installed gasket and die-cast housing when used with appropriate conduit fitting.
- Temperature Range: 40°F - 120°F, (4.5°C - 49°C) - UL
- Non-corrosive sleeve factory installed in saddle.

Service Use:

Automatic Sprinkler	NFPA-13
One or two family dwelling	NFPA-13D
Residential occupancy up to four stories	NFPA-13R
National Fire Alarm Code	NFPA-72

WARNING

- Installation must be performed by qualified personnel and in accordance with all national and local codes and ordinances.
- Shock hazard. Disconnect power source before servicing. Serious injury or death could result.
- Risk of explosion. Not for use in hazardous locations. Serious injury or death could result.

CAUTION

Waterflow switches that are monitoring wet pipe sprinkler systems shall not be used as the sole initiating device to discharge AFFF, deluge, or chemical suppression systems. Waterflow switches used for this application may result in unintended discharges caused by surges, trapped air, or short retard times.

Important: This document contains important information on the installation and operation of the VSR waterflow switches. Please read all instructions carefully before beginning installation. A copy of this document is required by NFPA 72 to be maintained on site.

General Information

The Model VSR is a vane type waterflow switch for use on wet sprinkler systems. It is UL Listed for use on a steel pipe; schedules 5 through 40, sizes 2" - 6" and is UL Listed and FM Approved for use on steel pipe; schedules 10 through 40, sizes 2" thru 8" (50 mm thru 200 mm). LPC approved sizes are 2" thru 8" (50 mm thru 200 mm). See Ordering Information chart.

The VSR may also be used as a sectional waterflow detector on large systems. The VSR contains two single pole, double throw, snap action switches and an adjustable, instantly recycling pneumatic retard. The switches are actuated when a flow of 10 GPM (38 LPM) or more occurs downstream of the device. The flow condition must exist for a period of time necessary to overcome the selected retard period.

Enclosure

The VSR switches and retard device are enclosed in a general purpose, die-cast housing. The cover is held in place with two tamper resistant screws which require a special key for removal. A field installable cover tamper switch is available as an option which may be used to indicate unauthorized removal of the cover. See bulletin number 5401103 for installation instructions of this switch.

Potter Electric Signal Company, LLC • St. Louis, MO • Phone: 866-956-1211/Canada 888-882-1833 • www.pottersignal.com

Installation (see Fig. 1)

These devices may be mounted on horizontal or vertical pipe. On horizontal pipe they shall be installed on the top side of the pipe where they will be accessible. The device should not be installed within 6" (15 cm) of a fitting which changes the direction of the waterflow or within 24" (60 cm) of a valve or drain.

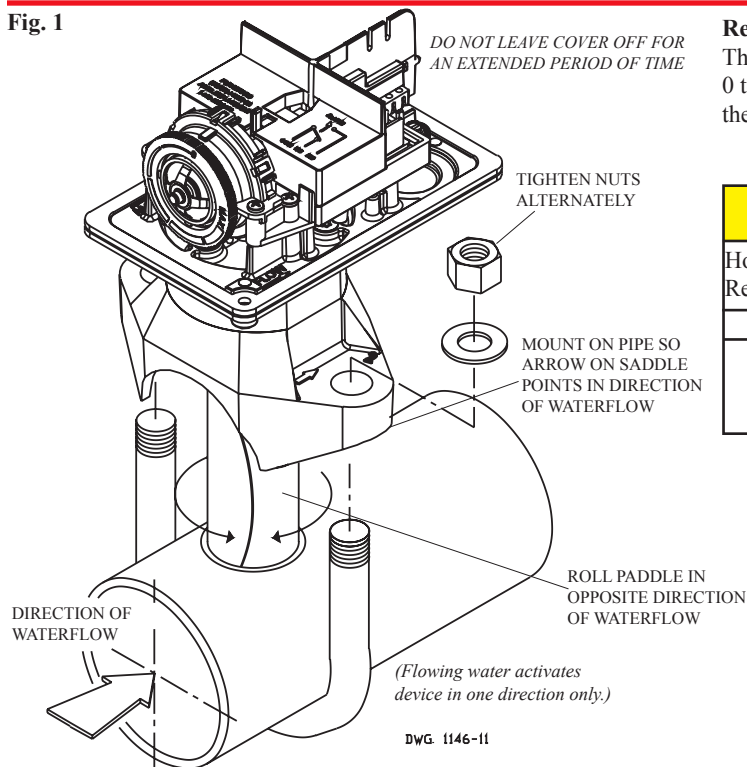
NOTE: Do not leave cover off for an extended period of time.

Drain the system and drill a hole in the pipe using a hole saw in a slow speed drill (see Fig. 1). Clean the inside pipe of all growth or other material for a distance equal to the pipe diameter on either side of the hole. Roll the vane so that it may be inserted into the hole; do not bend or crease it. Insert the vane so that the arrow on the saddle points in the direction of the waterflow. Take care not to damage the non-corrosive bushing in the saddle. The bushing should fit inside the hole in the pipe. Install the saddle strap and tighten nuts alternately to required torque (see the chart in Fig. 1). The vane must not rub the inside of the pipe or bind in any way.

CAUTION

Do not trim the paddle. Failure to follow these instructions may prevent the device from operating and will void the warranty. Do not obstruct or otherwise prevent the trip stem of the flow switch from moving when water flows as this could damage the flow switch and prevent an alarm. If an alarm is not desired, a qualified technician should disable the alarm system.

Fig. 1

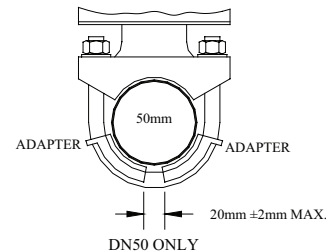
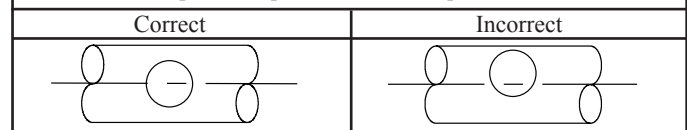


Retard Adjustment

The delay can be adjusted by rotating the retard adjustment knob from 0 to the max setting (60-90 seconds). The time delay should be set at the minimum required to prevent false alarms

CAUTION

Hole must be drilled perpendicular to the pipe and vertically centered. Refer to the Compatible Pipe/Installation Requirements chart for size.



USE (2) 5180162 ADAPTERS AS SHOWN ABOVE

DWG# 1146-1F

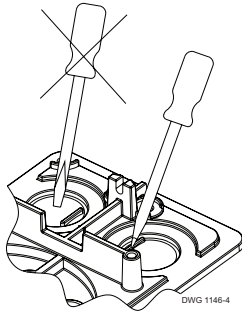
Compatible Pipe/ Installation Requirements

Model	Nominal Pipe Size		Nominal Pipe O.D.		Pipe Wall Thickness										Hole Size		U-Bolt Nuts Torque	
					Lightwall		Schedule 10 (UL)		Schedule 40 (UL)		BS-1387 (LPC)		DN (VDS)					
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	ft-lb	n-m
VSR-2	2	DN50	2.375	60.3	.065	1.651	0.109	2.77	0.154	3.91	0.142	3.6	0.091	2.3	1.25 ± .125/- .062	33.0 ± 2.0	20	27
VSR-2 1/2	2.5	-	2.875	73.0	.084	2.134	0.120	3.05	0.203	5.16	-	-	-	-				
VSR-2 1/2	-	DN65	3.000	76.1	-	-	-	-	-	-	0.142	3.6	0.102	2.6				
VSR-3	3	DN80	3.500	88.9	.083	2.108	0.120	3.05	0.216	5.49	0.157	4.0	0.114	2.9	2.00 ± .125	50.8 ± 2.0		
VSR-3 1/2	3.5	-	4.000	101.6	-	-	0.120	3.05	0.226	5.74	-	-	-	-				
VSR-4	4	DN100	4.500	114.3	.084	2.134	0.120	3.05	0.237	6.02	0.177	4.5	0.126	3.2				
VSR-5	5	-	5.563	141.3	-	-	0.134	3.40	0.258	6.55	-	-	-	-				
VSR-6	6	DN150	6.625	168.3	.115	2.921	0.134	3.40	0.280	7.11	0.197	5.0	0.157	4.0				
VSR-8	8	DN200	8.625	219.1	-	-	0.148	3.76	0.322	8.18	0.248	6.3	0.177	4.5				

NOTE: For copper or plastic pipe use Model VSR-CF.

Fig. 2

To remove knockouts: Place screwdriver at inside edge of knockouts, not in the center.



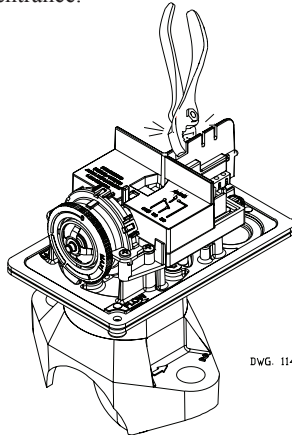
DWG. 1146-4

NOTICE

Do not drill into the base as this creates metal shavings which can create electrical hazards and damage the device. Drilling voids the warranty.

Fig. 3

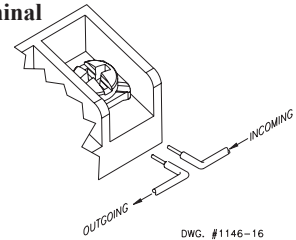
Break out thin section of cover when wiring both switches from one conduit entrance.



DWG. 1146-13

Fig. 4

Switch Terminal Connections Clamping Plate Terminal



DWG. #1146-16

WARNING

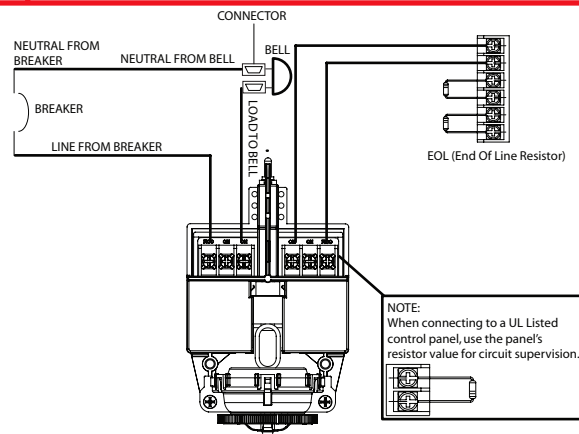
An uninsulated section of a single conductor should not be looped around the terminal and serve as two separate connections. The wire must be severed, thereby providing supervision of the connection in the event that the wire become dislodged from under the terminal. Failure to sever the wire may render the device inoperable risking severe property damage and loss of life.

Do not strip wire beyond 3/8" of length or expose an uninsulated conductor beyond the edge of the terminal block. When using stranded wire, capture all strands under the clamping plate.

Fig. 5 Typical Electrical Connections

Notes:

1. The Model VSR has two switches, one can be used to operate a central station, proprietary or remote signaling unit, while the other contact is used to operate a local audible or visual annunciator.
2. For supervised circuits, see "Switch Terminal Connections" drawing and warning note (Fig. 4).



NOTE:
When connecting to a UL Listed control panel, use the panel's resistor value for circuit supervision.

Testing

The frequency of inspection and testing for the Model VSR and its associated protective monitoring system shall be in accordance with applicable NFPA Codes and Standards and/or the authority having jurisdiction (manufacturer recommends quarterly or more frequently).

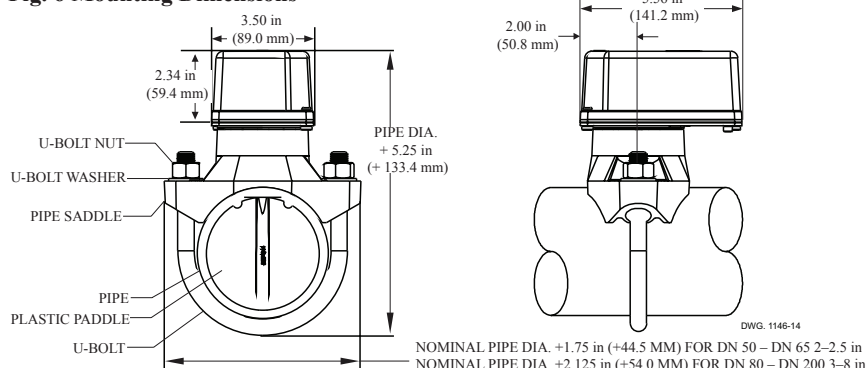
If provided, the inspector's test valve shall always be used for test purposes. If there are no provisions for testing the operation of the flow detection device on the system, application of the VSR is not recommended or advisable.

A minimum flow of 10 GPM (38 LPM) is required to activate this device.

NOTICE

Advise the person responsible for testing of the fire protection system that this system must be tested in accordance with the testing instructions.

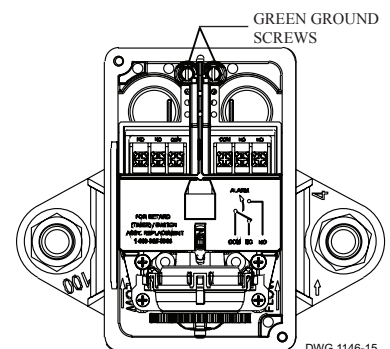
Fig. 6 Mounting Dimensions



DWG. 1146-14

NOMINAL PIPE DIA. +1.75 in (+44.5 mm) FOR DN 50 - DN 65 2-2.5 in
NOMINAL PIPE DIA. +2.125 in (+54.0 mm) FOR DN 80 - DN 200 3-8 in

Fig. 7



DWG. 1146-15

Maintenance

Inspect detectors monthly. If leaks are found, replace the detector. The VSR waterflow switch should provide years of trouble-free service. The retard and switch assembly are easily field replaceable. In the unlikely event that either component does not perform properly, please order replacement retard switch assembly stock #1029030 (see Fig. 8). There is no maintenance required, only periodic testing and inspection.

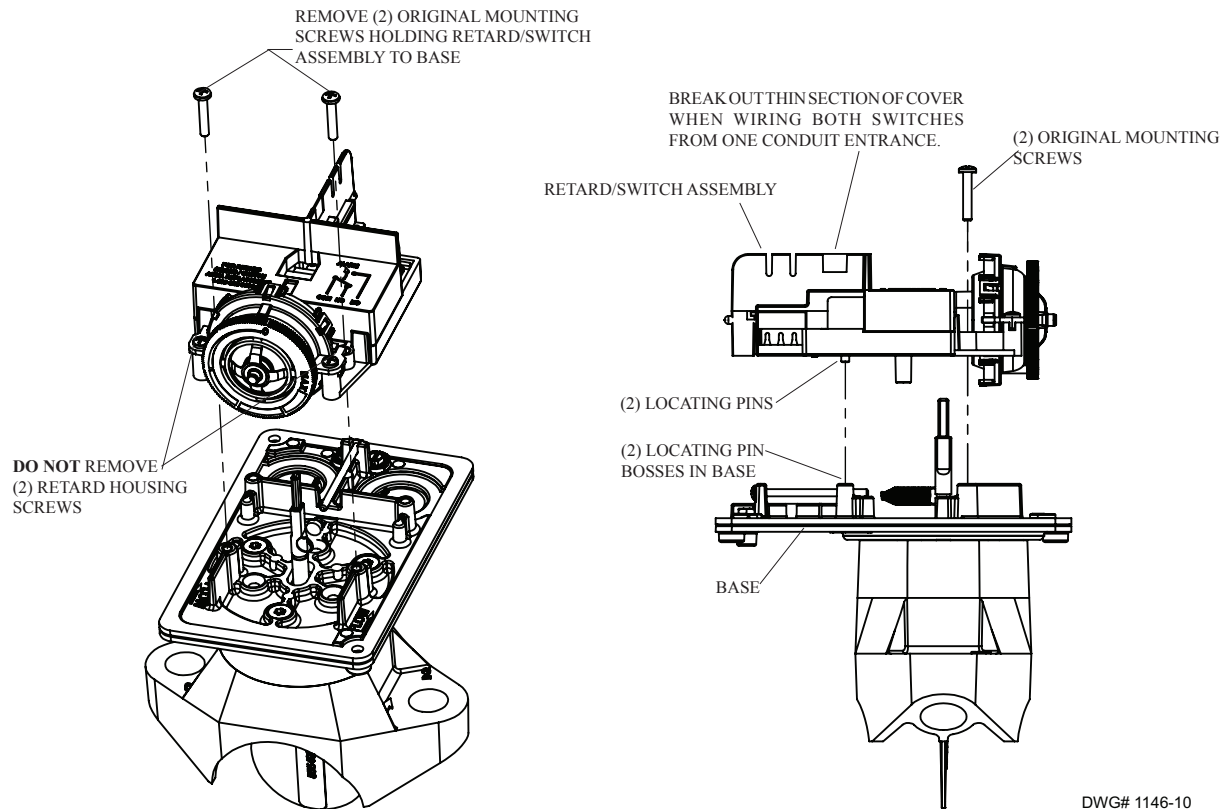
Retard/Switch Assembly Replacement (See Fig. 8)

NOTICE

The Retard/Switch Assembly is field-replaceable without draining the system or removing the waterflow switch from the pipe.

1. Make sure the fire alarm zone or circuit connected to the waterflow switch is bypassed or otherwise taken out of service.
2. Disconnect the power source for local bell (if applicable).
3. Identify and remove all wires from the waterflow switch.
4. Remove the (2) mounting screws holding retard/switch assembly to the base. **Do not** remove the (2) retard housing screws.
5. Remove the retard assembly by lifting it straight up over the tripstem.
6. Install the new retard assembly. Make sure the locating pins on the retard/switch assembly fit into the locating pin bosses on the base.
7. Re-install the (2) original mounting screws.
8. Reconnect all wires. Perform a flow test and place the system back in service.

Fig. 8



Removal of Waterflow Switch

- To prevent accidental water damage, all control valves should be shut tight and the system completely drained before waterflow detectors are removed or replaced.
- Turn off electrical power to the detector, then disconnect wiring.
- Loosen nuts and remove U-bolts.
- Gently lift the saddle far enough to get your fingers under it. With your fingers, roll the vane so it will fit through the hole while continuing to lift the waterflow detector saddle.
- Lift detector clear of pipe.

UL Listed, FM Approved

SWITCH CONTACTS: SPDT (Form C)

CONTACT RATING:

3 Amps at 250VAC

5 Amps at 125VAC

1 mA at 5 VDC min

TERMINATIONS: 8" (20 cm) N.O. 22 AWG wire leads

STOCK NO: 0090148

The VSRCTSK Cover Tamper Switch Kit provides a SPDT (single pole, double throw) contact that is used to detect the removal of the cover from the VSR Series Vane Type Waterflow Switch, and can be field installed.

CAUTION

Carefully read and follow the instructions provided. Failure to read and follow the instructions provided could result in improper operation.

WARNING

- Installation must be performed by qualified personnel and in accordance with all national and local codes and ordinances.
- Shock hazard. Disconnect power source before servicing. Serious injury or death could result.
- Risk of explosion. Not for use in hazardous locations. Serious injury or death could result.

INSTALLATION:

1. The VSRCTSK must be installed on the switch housing cover on the same side of the conduit entrance being used.
2. Insert the leads from the switch into the strain relief slot located in the switch housing as shown in Fig. 1.
3. Mount the tamper switch in the notches provided in the switch housing cover using the screws, washers, and nuts provided, as shown in Figure 2. For proper operation the mounting screws must be bottomed in the notches on the cover.
4. Pull up on the wires to lock them in the strain relief notches in the switch housing.

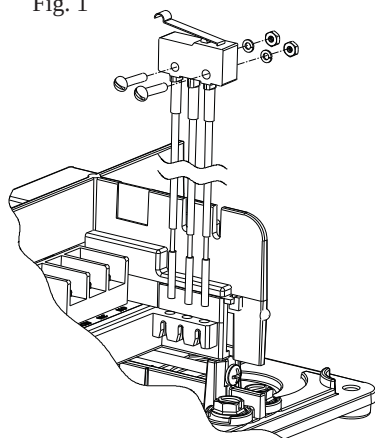
WIRING INFORMATION, CIRCUIT CONDITION WITH COVER AFFIXED:

N.O. - For normally open circuit with cover attached use Common (white) and Normally Open (black) Leads.

N.C. - For normally closed circuit with cover attached use Common (white) and Normally Closed (red) Leads.

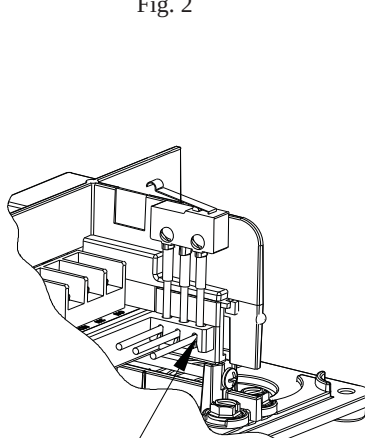
Adjustment - Some adjustment may be necessary to correctly position the blade of the switch. This can be accomplished by carefully bending the blade of the switch upward toward the cover to ensure engagement. Be careful to bend the switch-blade at the center to avoid damage to the switch.

Fig. 1



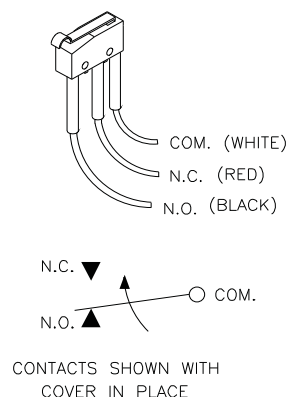
DWG. #1103-1

Fig. 2



BEND WIRE 90° TO
LOCK IN PLACE

Fig. 3



Vane type waterflow switches should be tested using the inspectors test valve to indicate water flow equivalent to that of a single sprinkler.

In some instances the waterflow switch will “cycle” on and off during this test. This is usually an indication of excessive air trapped in the sprinkler system.

This phenomenon has increased with the use of backflow preventors and inspector test valves in close proximity to the flowswitch instead of at the hydraulically remote locations.

Without a valve at the far end of the sprinkler system being open when the system is being filled, the air in the piping cannot vent as the water enters. All of this air compresses and can result in sprinkler pipes being partially filled with water.

In addition to excessive amounts of oxygen leading to increased corrosion, it can also cause the waterflow switch to cycle on and off, delayed operation of the flowswitch or false alarms. When the inspectors test valve is opened, the trapped compressed air expands pushing system water out of the test valve. When the system pressure drops enough, the backflow or check valve opens allowing fresh supply water to enter the system. The supply water flows past the waterflow switch, moves the paddle and starts the retard action. The incoming supply water also compresses the air in the system causing pressure to build up. When the system pressure equals the supply pressure the backflow will close and the flowswitch resets. Then the entire cycling process starts all over. While there may be as a steady stream of water flowing out of the test valve, there is not a steady stream of water flowing past the flowswitch.

The delayed flowswitch operation occurs because the cycling keeps going until eventually it takes long enough for the backflow to close that the flowswitch finally goes into alarm or in the event of a real fire, another sprinkler opens and now it flows enough water that the backflow stays open.

False alarms can occur because when you open the ITV you bleed off any pressure that may have built up in the system. Now when the city turns on their pumps late at night to build up pressure for the morning water demand of the city, this water flows into the system and trips the flowswitch because the pipes are only partially full and the system pressure is lower than the supply pressure because the system pressure was vented through the ITV the day before.

Potter makes an automatic air vent, model [PAAR-B](#) or [PAV](#), that can be used to automatically vent air from the system or remote valves can be installed for venting the system as it is being filled

Regards,



Mike Henke CET
Product Manager
Sprinkler Products Division

February 28, 2017

NFPA 13, 2016, 23.4.4.8.1 (I) requires that the friction loss across [vane-type water flow switches](#) 2 inches and smaller be included in the fire sprinkler hydraulic calculations. As each community, County, State or local AHJ adopts this standard, Potter can expect to receive telephone calls related to this topic. Potter Flow Switches products are manufactured and tested to [UL Standard 346](#).

[UL Standard 346](#) allows a maximum pressure drop of 3 psig (20.7 kPa) for flowswitches up to and including 4" and 1 psi in flowswitches 5" and larger. Potter's flow switches meet or improve upon that requirement.

The actual friction loss may be substantially less than the UL requirement. Field testing may be used to verify this. However, in the absence of field testing, using the 3 psig (20.7 kPa) figure is a conservative approach.

This response is consistent with the requirements of [NFPA 13](#), 24.4.4.7 "Table 24.4.2.7 shall be used to determine the equivalent length of pipe for fittings and devices unless manufacturer's test data indicate that other factors are appropriate."

This memorandum is not confidential and may be distributed as needed.

Regards,



Mike Henke CET
Product Manager
Sprinkler Products Division

Vane-Type Waterflow Switch

UL, CUL Listed / FM, LPCB, VdS Approved and CE Marked vane type waterflow switches shall be furnished and installed at each sprinkler system connection to the wet pipe main where indicated on the drawings and plans and as required by applicable local and national codes and standards.

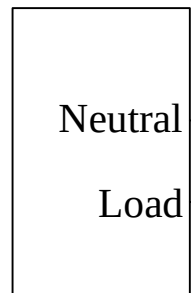
The device shall consist of a saddle with factory installed non-corrosive insert, gasket and non-corrosive vane and trip stem assembly as well as a field replaceable adjustable time delay / switch mechanism to prevent false alarms from water surges. All wetted parts of the waterflow switch shall be non-metallic to resist being affected by or contributing to corrosion. The waterflow switch enclosures shall be NEMA 4 rated and the cover shall be held captive by tamper resistant screws. It shall be possible to install an optional cover tamper switch to detect removal of the enclosure.

The field replaceable instantly recycling adjustable pneumatic retard shall provide a 0-90 second time delay and visual indication of activation. Expiration of the retard time shall result in the simultaneous operation of two sets of single pole double throw (SPDT) switch contacts rated at 10A, 125VAC and 2A, 30VDC. Each switch contact shall have a separate wiring chamber and separate conduit entrance to comply with the NEC requirements for separation of power limited and non power limited conductors without the need for special wire or wire methods.

The device shall be listed for pressures up to 450 psi, maximum water surges of 18 fps and alarm activation by a continuous flow of 10gpm. The device shall be Listed for installation on pipe schedules from 5-40 for 2" – 6" and schedule 10-40 for 8" through 10" size.

The waterflow switch shall be a model VSR manufactured by Potter Electric Signal Company LLC.

110VAC
Power



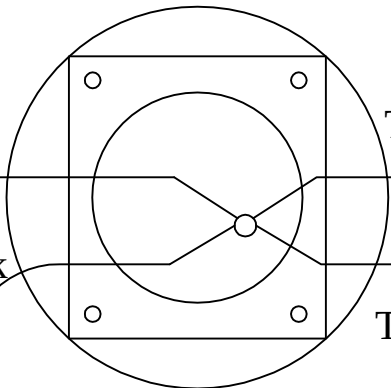
White (Neutral)

Black(Hot)

White

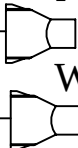
Black

110VAC
Alarm Bell



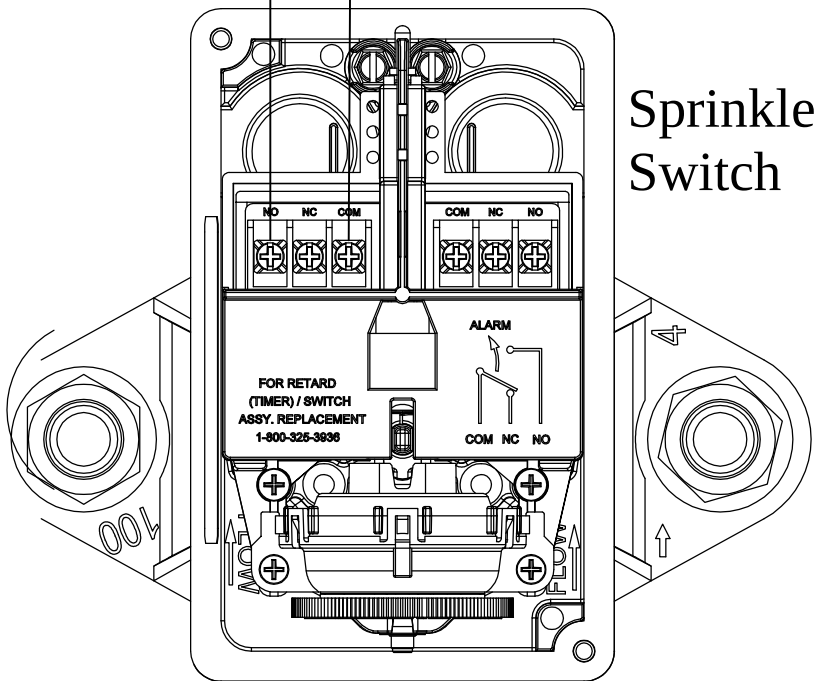
To Next Bell Or Cap Off The White Wire

White
Black



To Next Bell Or Cap Off The Black Wire

Sprinkler Flow
Switch



Waterflow Detectors, Vane Type

Waterflow detectors installed in sprinkler systems provide an electrical alarm when a flow of water from the system equals or exceeds that of a single sprinkler. They can be used with either open or closed signaling circuits.

They may consist of a flexible vane which projects into the waterway or a pressure-sensing device. For the flexible vane type, water movement deflects the vane, and the motion is transmitted to an alarm-actuating switch after a predetermined time delay. The time delay is accomplished by the use of an instantly recycling retard.

Unless otherwise noted in the listing, the flexible vane type is to be used with pipe having an inside diameter which corresponds to Schedule 40 pipe for sizes up to and including 6 in. (152 mm) or Schedule 30 pipe for sizes 8 and 10 in. (203 and 254 mm).

Waterflow detectors should not be specified for those systems where the time duration of a pressure fluctuation is greater than the retard time. Instantly recycling retards will not transmit an electrical alarm until the time duration of the pressure fluctuation or waterflow past the vane of the flow detector has exceeded the predetermined time setting of 30-60 seconds. Unless otherwise noted in the listing, these detectors have 175 psi (1205 kPa) rated working pressure.

Models VS-F, VSR, VSR-F, VSR-FE, VSR-FEX, VSR-TSK

Model VSR, VSR-TSK, VSR-F, VS-F, VSR-FE-2, VSR-FEX, VSR-EU Certificate 3022784

Model VSR. 2 through 8 in. NPS. Furnished with two snap switches and pneumatic retard. 450 psi (3100 kPa) rated working pressure.

Model VSR-TSK. 2 through 6 in. NPS. Furnished with two snap switches and pneumatic retard, and a tamper switch to indicate that the cover was removed. 450 psi (3100 kPa) rated working pressure.

Model VSR-F. 2 through 8 in. NPS. Furnished with one or two snap switches and pneumatic retard. 450 psi (3105 kPa) rated working pressure.

Models VS-F, VSR-F. 2 through 5 in. NPS, for use with Schedule 10 pipe; 6 in. NPS, for use with pipe having a wall thickness of 0.134 in. (3 mm); 8 in. NPS (203 mm), for use with pipe having a wall thickness of 0.188 in. (5 mm), or Schedule 40 pipe. Model VSR-F. 2 through 8 in. NPS furnished with one or two snap switches and pneumatic retard. 450 psi (3105 kPa) rated working pressure.

Model VSR-FE-2. 2 through 5 in. NPS, for use with Schedule 10 pipe; 6 in. NPS, for use with pipe having a wall thickness of 0.134 in. (3 mm); 8 in. NPS, for use with pipe having a wall thickness of 0.188 in. (5 mm). All sizes also for use in Schedule 40 pipe. 450 psi (3105 kPa) rated working pressure. Furnished with electronic retard.

Model VSR-FEX. 2 through 8 in. NPS. For simultaneous usage as explosionproof for Class I, Division 1, Groups C and D; dust-ignitionproof for Class II/III, Division 1, Groups E, F and G hazardous (classified) locations indoors and outdoors (NEMA Type 4); 2 through 5 in. NPS, for use with Schedule 10 pipe; 6 in. NPS, for use with pipe having a wall thickness of 0.134 in. (3 mm); 8 in. NPS, for use with pipe having a wall thickness of 0.188 in. (5 mm). All sizes also for use in Schedule 40 pipe. 450 psi (3105 kPa) rated working pressure. Furnished with pneumatic retard.

Model VSR-EU. Sizes 2 through 8 in. NPS. Furnished with two snap switches and pneumatic retard. 450 psi (3100 kPa) rated working pressure.

Company Name:	Potter Electric Signal Company
Company Address:	1609 Park 370 Place, Hazelwood, Missouri 63042, USA
Company Website:	http://pottersignal.com
New/Updated Product Listing:	No
Listing Country:	United States of America
Certification Type:	FM Approved
Class of Work:	1042-Waterflow Detectors(vane type)

USQT7.S309 - Extinguishing System Attachments Certified for Canada

Extinguishing System Attachments Certified for Canada

POTTER ELECTRIC SIGNAL CO L L C
1609 PARK 370 PL
HAZELWOOD, MO 63042-4417 United States

S309

Supervisory signal initiating devices, valve supervisory switches, Models PTS-B, PTS-C plug type switches-special applications. Models BVS-1", -3/4", -1/2" Supervised trim valves..

Model RBVS Retro-fit Ball Valve Supervisory Switch.

Supervisory Water Temperature devices, Models TTS-W, TTS-W for steel or wood tanks, indoor or outdoor use.

Supervisory Air Temperature devices, Models RTS-C, RTS-O, for indoor use.

Water supply valve position signals, Models PCVS-1 and PCVS-2, Contact rating: 10.0A at 125/250 V ac, 2.0 A at 30VDC Resistive, 10 mA minimum at 24 VDC 15 A; Models OSYSU-1 and OSYSU-2, Contact rating: 10.0A at 125/250 V ac, 2.0 A at 30VDC Resistive, 10 mA minimum at 24 VDC; Model PTS-B, Contact rating: 28 V ac-dc, 0.25 A; Model PMS, Contact rating: 24 V ac-dc, 0.15 A; 120 V dc, 0.1 A.

Wet-pipe sprinkler system attachments, Waterflow indicators (vane type), Models VS-SP, VS-SPB, VSR-F, Contact rating: 125/250 V ac, 15 A; 125 V dc, 0.5 A; 250 V dc, 0.25 A; Model VSR-SF, Contact rating: 125/250 V ac, 10 A, 0-30 V dc, 2 A.

SPRINKLER SYSTEM ALARM INITIATING DEVICES DRY-PIPE & WET-PIPE, PRESSURE TYPE

Model	Oper Pressure psig	Max System Pressure psig
PS-10	0-20	300
PS-10A	4-8	300
PS10-1	4-15	300
PS10-1A	4-20	250
PS10-2	4-15	300
PS10-2A	4-20	250
PS10-1 w/Brass Bushing	4-15	300
PS10-2 w/Brass Bushing	4-15	300
PS-100	20-225	300
PS-100A	20-175	300
PS100-2	25-175	300
PS100-2A	20-225	300

WFS-B	10	250
WFSPDB	100	250
WFSR-F	4-8	175
QRS	10-65	175

**SUPERVISORY SIGNAL INITIATING DEVICES
PRESSURE DEVICES**

Model	Oper Pressure psig	Max System Pressure psig
PS-40	20-225	300
PS15-2	5-30	300
PS-40A	20-175	300
PS40-1	10-60	300
PS40-1A	20-175	300
PS40-2A	20-175	300
PS25-2	10-60	300
PS40-2	10-60	300
PS40-1 w/Brass Bushing	10-60	300
PS40-2 w/Brass Bushing	10-60	300
HLS-B	40	250
PS-120	20-225	300
PS-120A	20-175	300
PS120-1	25-175	300
PS120-1A	20-175	300
PS120-2	25-175	300
PS120-2A	20-175	300
PS120-1 w/Brass Bushing	35-225	300
PS120-2 w/Brass Bushing	35-225	300
EPS10EXP	4-20	250
EPS40EXP	10-100	250
EPS120EXP	10-200	250
EPS10-1	4-20	300
EPS10-2	4-20	300

EPS120-1	10-200	300
EPS120-2	10-200	300

Sprinkler System Alarm initiating Devices Wet pipe, Paddle Type

Model	Size In.	Pipe Schedule	Max System Pressure psig
VSR-SFG, VSR-SFT, VSR-ST, VSR-SG	1, 1-1/4, 1-1/2, 2	Listed Plastic	250
VSR-F, VSR-FE, VSR-FE-2, VS-F	2, 2-1/2, 3,	10-40	450
	3-1/2, 4, 5,	Steel	
VSR-S, VSR-S (EU)	1, 1-1/4, 1-1/2, 2	10-40 Steel	300
		Listed Plastic	
		K, L, M Copper	
VSR-SF, VS-SP, VS-SPB	1, 1-1/4, 1-1/2, 2	10-40 Steel	250
		Listed Plastic	
		K, L, M Copper	
VSR-CF, VSR-C	2, 2-1/2, 3,	Listed Plastic	175
	2, 2-1/2, 3, 4	K, L, M Copper	
VSR, VSR-CR	2, 2-1/2, 3, 3-1/2,	10-40 Steel	450
	4, 5, 6, 8, 10		
VSR-AT	2, 2-1/2, 3, 3-1/2,	10-40 Steel	450
	4, 5, 6, 8		
VSR-EU	2, 2-1/2, 3, 4, 5, 6, 8	10-40 Steel	450
VSG	2, 2-1/2, 3, 4	Water Mist	450
WFD20EXP	2	10-40 Steel	450
WFD25EXP	2.5	10-40 Steel	450
WFD30-2EXP	3	10-40 Steel	450
WFD35EXP	3.5	10-40 Steel	450
WFD40EXP	4	10-40 Steel	450
WFD50EXP	5	10-40 Steel	450
WFD60EXP	6	10-40 Steel	450
WFD80EXP	8	10-40 Steel	450

Wet-pipe sprinkler system attachments: Water-flow indicators (paddle type), suitable for indoor and outdoor installation shipped without "U" bolts and nuts to Victaulic customer. Models may be single or bulk-packaged. The packing cartons will also include the assigned Victaulic Part Code on the exterior.

Model WFD20VN with Victaulic Part Code CXS020747020.

Model WFD25VN with Victaulic Part Code CXS024747022.

Model WFD30VN with Victaulic Part Code CSX030747N23.

Model WFD40VN with Victaulic Part Code CXS040747025.

Model WFD60VN with Victaulic Part Code CXS060747027.

Wet-pipe sprinkler system attachments: Water-flow indicators (paddle type):

Model	Size In.	Pipe Schedule	Max Working Pressure psig
WFD20VN	2	Victaulic Risers	450
WFD25VN	2-1/2	Victaulic Risers	450
WFD30VN	3	Victaulic Risers	450
WFD40VN	4	Victaulic Risers	450
WFD60VN	6	Victaulic Risers	450
WFD20N, WFD20NA	2	7, 10, 40	450
WFD25N, WFD25NA	2-1/2	7, 10, 40	450
WFD30N, WFD30NA	3	7, 10, 40	450
WFD40N, WFD40NA	4	7, 10, 40	450
WFD50N, WFD50NA	5	10, 40	450
WFD60N, WFD60NA	6	10, 40	450
WFD80N, WFD80NA	8	10, 40	450
WFDTN, WFDTNA, WFDTVN, WFDNTRN, RFDTHN	Threaded Brass or steel: 1, 1-1/4, 1-1/2, 2 Copper Sweat Tees: 1, 1-1/4, 1-1/2, 2 Tyco, Spears, Victaulic and NIBCO brand Chlorinated Polyvinyl Chloride: 1		375
WFDNFS, WFDNFSA	SPEARS brand Chlorinated Polyvinyl Chloride: 1, 1-1/4, 1-1/2, 2 NIBCO brand Chlorinated Polyvinyl Chloride: 1, 1-1/4, 1-1/2, 2 TYCO brand Chlorinated Polyvinyl Chloride: 1, 1-1/4, 1-1/2, 2 IPEX brand Chlorinated Polyvinyl Chloride: 1, 1-1/4, 1-1/2, 2		175
WFDNFT, WFDNFTA	Steel/Brass Threaded: 1, 1-1/4, 1-1/2, 2 Copper Sweat Tees: 1, 1-1/4, 1-1/2, 2 NIBCO brand Chlorinated Polyvinyl Chloride: 1 "CPVC SPEARS w/Metal Band": 1, 1-1/2 "CPVC SPEARS w/Brass Insert": 1 TYCO brand Chlorinated Polyvinyl Chloride: 1		175

The WFD Series waterflow indicators employ an enclosure that was evaluated for Type NEMA 4/IP 54 rating.

Model VS-SP, VS-SPB for outdoor use with Kit No. 1940037. Models VS-F, VSR-F, VSR-CF, VSR-C, VSR-FE, VSR-FE-2 for outdoor use with Kit No. 1940036.

Accessory, Cover Tamper Switch Kit, Model PSCTSK for use with the PS Series Pressure Switches.

Trademark and/or Tradename:  **Safe Signal™**

Last Updated on 2021-07-01

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TEST AND DRAIN VALVE



KIRMARY

Model No. KM200

TEST AND DRAIN VALVE

Features

Working Pressure: 300 PSI

Size: 1", 1-1/4", 1-1/2", 2"

K-Factor: 5.6

Certificated Size: Positive positioning of handle for OFF, TEST, or DRAIN.

Large, integral sight glass on both sides.

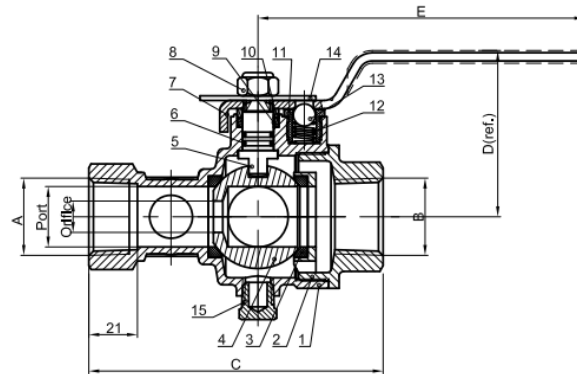
UL listed and FM approved

Dimension Table

A/B	Orifice	Port	C	D(ref.)	E	H
NPT 1"	1/2(0.512)	1.024	5	2.76	5.16	1.65
NPT 1-1/4"	1/2(0.528)	1.024	5	2.76	5.16	1.65
NPT 1-1/2"	1/2(0.524)	1.575	6.57	3.5	6.34	2.28
NPT 2"	1/2(0.524)	1.575	6.57	3.5	6.34	2.28

Material Description

Item	Name	Material	Item	Name	Material
1.	Body	C37700	2.	Cap	C37700
3.	Seal	PTFE	4.	Ball	C37700
5.	Stem	C37700	6.	O-Ring	NBR
7.	Lever	Steel	8.	Nut	Steel
9.	Gland Packing	PTFE	10.	Gland Ring	C37700
11.	Gland Nut	C37700	12.	Spring	304
13.	Steel Ball	304	14.	Indicator Plate	Steel
15.	Plug	C37700	16.	Washer	NBR
17.	Sight Glass	Lexan	18.	Retaining Ring	C37700



E-mail: sales@kirmary.com
info@kirmary.com
kirmary@kirmary.com

website: www.kirmary.com



Certificate of Compliance

This certificate is issued for the following:

Sprinkler System Alarm Test Devices

KM200

Prepared for:

Kirmary International LLC

91 Linden Ave
Irvington Township, New Jersey 07111
USA

Approval Standard: FM 1625 (December 2009)

Approval Identification: PR465870

Approval Granted: 3 May 2023

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

A handwritten signature in dark ink, appearing to read "D.B. Fuller", is written over a horizontal line.

David B. Fuller
VP, Manager – Fire Protection
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062



Member of the FM Global Group



KM200 - Drain Fittings, Special Type

Drain Fittings, Special Type

File Number: EX29017

COMPANY

Kirmary International LLC

91 Linden Ave
Irvington, NJ 07111-2562 United States

MODEL INFO

KM200

PRODUCT INFORMATION		
Size, in.	Nominal K-Factor, gpm/v(psi) [L/min/v(kPa)]	Rated Pressure, psi (kPa)
1	5.6 (8)	300 (2070)
1-1/4	5.6 (8)	300 (2070)
1-1/2	5.6 (8)	300 (2070)
2	5.6 (8)	300 (2070)



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TECHNICAL DATA

WATER AND AIR PRESSURE GAUGES

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058
 Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com
 Visit the Viking website for the latest edition of this technical data page www.vikinggroupinc.com

1. DESCRIPTION

Viking Pressure Gauges give visual indication of the water or air pressure available to the fire protection system.

2. LISTINGS AND APPROVALS

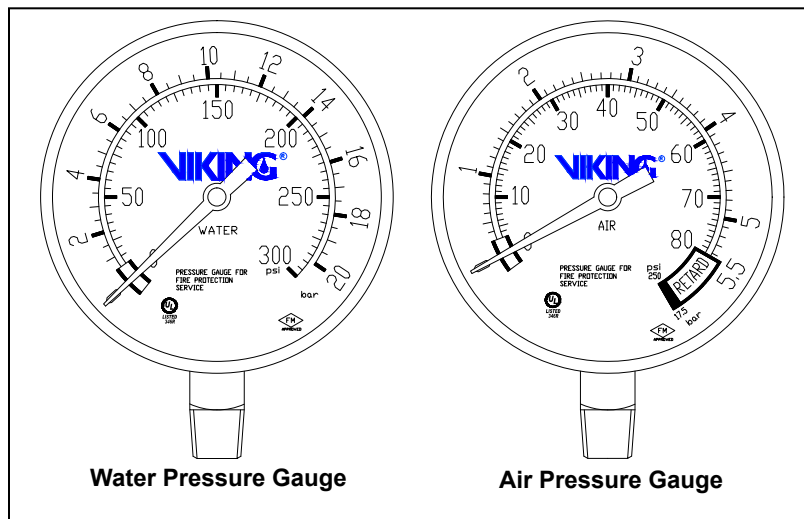
UL Listed - VEVX
 ULc Listed - VEVXC
 FM Approved - Pressure Gauges

3. TECHNICAL DATA

Connection: 1/4" NPT

Working Pressure:

- Water Gauge: 300 PSI (20.7 bar)
- Water Gauge: 600 PSI (41.4 bar)
- Air Gauge: 250 PSI (17.2 bar) (Air gauge includes a "Retard Zone" between 80 and 250 PSI)



Material Standards

Case and window: Plastic
 Bourdon Tube: Bronze
 Socket: Brass

Ordering Information

Available since 1977.

300 PSI (20.7 bar) Water Pressure Gauge - VWATERSF
 600 PSI (41.4 bar) Water Pressure Gauge - VWATERSF600
 250 PSI (17.2 bar) Air Pressure Gauge - VAIRSF



WARNING: Cancer and Reproductive Harm-
www.P65Warnings.ca.gov

4. INSTALLATION

1. Gauges are to be installed in accordance with the latest published standards of the National Fire Protection Association or other similar organizations, and also with the provisions of governmental codes, ordinances, and standards whenever applicable.
2. Gauges must be handled with care. They must be stored in a cool, dry place in their original shipping container. Never install gauges that have been dropped or damaged in any way. Such gauges should be destroyed immediately.
3. Adequate heat must be provided where gauges are installed.
4. The gauges must be protected from mechanical damage. Install the gauges according to the following steps:
 - a. Apply a small amount of pipe-joint compound or tape to the external threads of the gauge only. Take care that no joint compound is allowed into the orifice of the gauge.
 - b. Turn the unit clockwise to thread the gauge into the 1/4" (6.4 mm) NPT connection of the fitting. DO NOT over-tighten the gauge.

5. AVAILABILITY

The water and air gauges are available through a network of domestic and international distributors. See The Viking Corporation web site for the closest distributor or contact The Viking Corporation.

6. GUARANTEES

For details of warranty, refer to Viking's current list price schedule or contact Viking directly.

Pressure Gauges

Gauges for sprinkler systems and fire pumps are designed for use with air or water. These gauges are usually of the Bourdon tube type. The moving parts are fabricated of appropriate corrosion-resistant materials.

When installed on the air side of a dry pipe system, a retard type gauge may be used. This gauge is assembled with a tube appropriate to the unretarded pressure range of the gauge and is provided with a spring to resist the full scale load.

The two common sizes are 4 1/2 and 3 1/2 in. diameter. These gauges can be calibrated with a hydraulic testing unit by adjusting the dial pointer to read correctly at known pressures. Accuracy requirements are that the gauge be correct within 2% over the center third of its scale and within 3% over the remaining two-thirds. Dial marking subdivisions correspond to the maximum accuracy of the gauge.

For service on fire pumps where the suction may be taken under a lift, compound pressure vacuum gauges are available graduated in pressure units over both the pressure and vacuum scales, and are designed not to be injured by vacuum.

To minimize possible damage and provide maximum accuracy, gauges should be selected with scales of about twice the maximum system pressure.

Model PFE pressure gauge

Air or Water Pressure Gauge - Model PFE Series, 3-1/2 in. (89 mm) size, Plastic Case

- 0 to 80 to 250 psi (0 to 550 to 1750 kPa) Retard Pressure Gauge
- 0 to 300 psi (0 to 2000 kPa)

This gauge has a 1/4 in. male NPT bottom connection.

Company Name:	WINTERS INSTRUMENTS
Company Address:	121 Railside Rd , Toronto, Ontario M3A 1B2, CAN
Company Website:	http://winters.com
New/Updated Product Listing:	No
Listing Country:	Canada
Certification Type:	FM Approved
Class of Work:	



VEVX.EX16217 - GAUGES, PRESSURE

Gauges, Pressure

See General Information for Gauges, Pressure

WINTERS INSTRUMENTS

EX16217

121 RAILSIDE RD

TORONTO, ON M3A 1B2 CANADA

Bourdon spring (tube) type, Models PFE3932, PFE3932R1, PFE3933, PFE3933R1, bourdon tube type gauge in 3-1/2 in. size with dial graduations of 0-300 psi.

Models PFE3935, PFE3935R1, bourdon tube type gauge in 3-1/2 in. size with dial graduations of 0-300 psi. Model Type 711, bourdon tube type gauge in 3-1/2 in. size with dial graduations of 0-80 psi retarded to 250 psi.

Models PFE3932, PFE3932R1, PFE3933, PFE3933R1, bourdon tube type gauge in 3-1/2 in. size with dial graduations of 0-80 psi retarded to 250 psi.

Models PFE3932R1R3, PFE3932R1R11, PFE3933R1R3, PFE3933R1R11, PFE3935R1R3, PFE3935R1R11, bourdon tube type gauge in 3-1/2 in. size with dial graduations of 0-300 psi. Model Type 711 and Model R1590, bourdon tube type gauge in 3-1/2 in. size with dial graduations of 0-80 psi retarded to 250 psi.

Trademark and/or Tradename:



Last Updated on 2018-09-20

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August 19, 2019

RE: VWATERSF and VAIRSF

Dear Viking Customer;

Recently Viking has changed sub-suppliers for the fire protection system water gauge (VWATERSF) and air gauge (VAIRSF). This new sub-supplier, Winters Instruments, meets all Viking specification requirements and carries the necessary UL Listing and FM Approval for these gauges. Viking SupplyNet is an approved and authorized distributor of these Winters Instruments gauges.

Best Regards,

Greg Griffin

Greg Griffin
Director - Purchasing
Viking Corporation & Viking SupplyNet

طلب تقديم مستندات



مسلسل	5830-TA-MAR-ME-0000	مشروع : 5830
إصدار	0	الملك : فريدة المنطقة الصناعية العسكرية
التاريخ	Thursday, May 20, 2021	المقرن العام : توتنك اير للمشروعات

اسم التقييم

☐ معاصر ☐ الشفي ☐ كهرباء ☐ ميكانيكا ☐ تكييف ☐ اخرى

مصف التقييم

1	☐ خامات	5	☐ طرق التنفيذ	9	☐ تأمين	13	☐ عتبات
2	☐ رسومات تنفيذية	6	☐ امن حشاش	10	☐ كتالوج	14	☐ حسابات
3	☐ استكشافات	7	☐ جدول	11	☐ نظام	15	☐ قائمة التوريد
4	☐ وثائق جودة	8	☐ تقارير	12	☐ معدات	16	☐ اخرى

تفاصيل التقييم

م	وصف المادة	اسم الشركة المنتجة/المورد	المرحلات	ملاحظات
1	عداد قياس ضغط	Winter	DATA SHEETs + Sample	عدد 2 نسخة

التقييم بمرضى :

☐ لتعلم ☐ للاحتكاك ☐ للمراجعة ☐ لمراجعة وتطبيق

مدير المكاتب الفني ☐ مدير الجودة ☐ مدير المشروع

الاستشاري

بم تقديم شهادة المناقصة ومقدمة عن التوريد

يتم التوريد وفقا للميزانية المقدسة

مقبول ☐ مقبول بملاحظات ☐ مرافق وهدد تقديم ☐

اسم الاستشاري :
توقيع الاستشاري :

KirMary

Engineering Supplies
Importing & Exporting
Trading Agencies



كيرماري

للتوريدات الهندسية
إستيراد وتصدير
والتوكيلات التجارية

Ball Valves

Brass valves from 1/2" to 4" - UL/FM

Brand: KIRMARY

Model: KM250

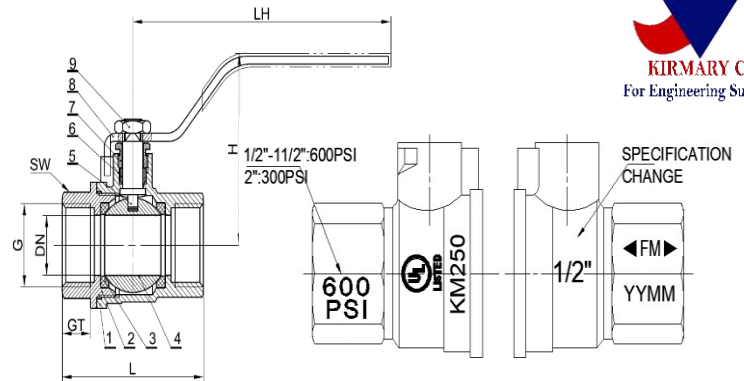
٥ شارع خالد بن الوليد شيراتون - القاهرة تليفون: ٢٢٦٧٥٣٣٩-٢٢٦٦٤٩٢٠/٠٣

موبايل: ٠١٢٢٧٩٠٥٢٤٨ - ٠١٢٢٧٣٨٩٥٢٨ - ٠١٢١١١٧٨٢٥٠ - ٠١٠١٩٥٤٢٩٤١

E-mail: Kir.mary@yahoo.com

website: www.Kirmary.com

BALL VALVE



KIRMARY

Model No. KM250

BALL VALVE

Sizes: 1/2"- 3/4"- 1"-1 1/4"- 1 1/2"- 2"- 2 1/2"

Working pressure

1/2"-1 1/2": 600PSI

2": 300PSI

2 1/2"-3": 600 PSI WOG

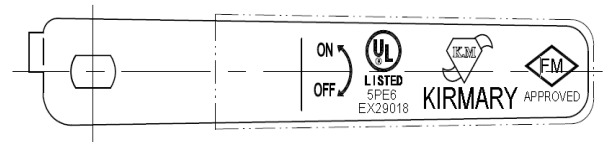
UL listed and FM approved

1.Dimension

G	DN	L	H	SW	Gt	LH
NPT 1/2"-14	14.5	57	51.5	25	15.5	89
NPT 3/4"-14	19.5	63	61	31	16	104
NPT 1"-11.5	24.5	75.5	63.5	38	19	117.5
NPT 1 1/4"-11.5	32	86.5	70	47	19.5	117.5
NPT 1 1/2"-11.5	40	94.2	94	53	19.5	145
NPT 2"-11.5	50	108	102	65	20	145
NPT 2 1/2"-8	64	136	114.5	81	23.5	233
NPT 3"-8	75	157.5	124	98	25.5	233

2.Material

NO	Part	Material	NO	Part	Material
1	Body	C37700	2	Bonnet	C37700
3	Seal	PTFE	4	Ball	C37700
5	Stem	HPb59-1	6	Stem Packing	PTFE
7	Gland Nut	C37700	8	Handle	Steel
9	Handle Nut	Steel			



E-mail: sales@kirmary.com
info@kirmary.com
kirmary@kirmary.com

website: www.kirmary.com



Certificate of Compliance

This certificate is issued for the following:

Quick Opening Valves 1/4 Inch Through 2 Inch Nominal Size

KM250

Prepared for:

Kirmory International LLC

91 Linden Ave

Irvington Township, New Jersey 07111

USA

Approval Standard: FM 1140 (October 1998)

Approval Identification: PR465870

Approval Granted: 3 May 2023

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

A handwritten signature in black ink, appearing to read 'D.B. Fuller', written over a horizontal line.

David B. Fuller

VP, Manager – Fire Protection

FM Approvals

1151 Boston-Providence Turnpike

Norwood, MA 02062



Member of the FM Global Group



KM250 - Valves, Trim and Drain

Valves, Trim and Drain

File Number: EX29018

COMPANY

Kirmary International LLC

91 Linden Ave
Irvington, NJ 07111-2562 United States

MODEL INFO

KM250

Ball

ATTRIBUTES AND RATINGS

Size, in. (mm)	Rated Pressure, psig (kPa)
1/4 (6.4);3/8 (9.5);1/2 (12.7);3/4 (19.1);1 (25.4);1-1/4 (31.8);1-1/2 (38.1)	600 (4136)
2 (50.8)	300 (2068)

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