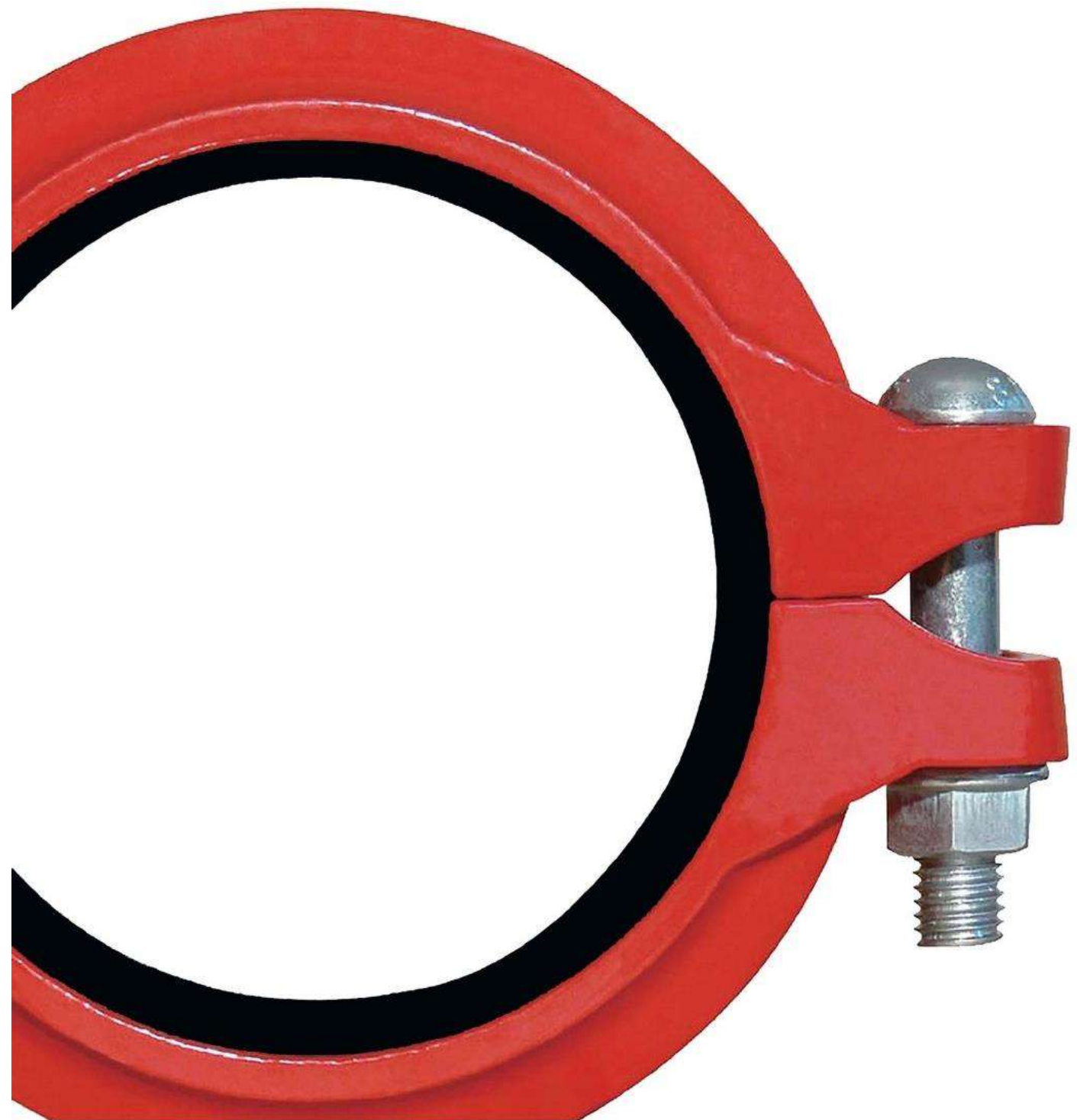


LEDE 168
CORPORATION





COMPANY PROFILE

LEDE 168 CORPORATION is a wholesaler, retailer, importer of high quality building and construction materials. The company is appointed by SHANDONG LEDE MACHINERY CO., LTD. in Shandong, China as their Exclusive Distributor in the Philippines.

SHANDONG LEDE MACHINERY CO. LTD. was founded in 1999, mainly engages in the production of Ductile Iron Grooved Fittings, the annual production capacity can reach 20,000 tons. Now LEDE has been the leading manufacturer in the field of grooved fittings in China.

LEDE is committed to supplying the best price-performance ratio products that are in accordance to international standard for various customers worldwide. For ductile iron grooved fittings, LEDE has been approved by international quality assurance agencies like FM and UL. LEDE products are also in accordance with international standards such as ASTM, ANSI, DIN. In addition, the Mechanical Tee and Mechanical Cross have got the national design patent on the appearance.

LEDE 168 CORPORATION was established in December 23, 2013. The company is back-up by dynamic sales personnel who are committed to provide exceptional service to all its clients with a good understanding of the construction supply industry. The company also supported by its principal suppliers with expert technical assistance and extensive research and development.

LEDE 168 CORPORATION always put its clients on top of every activity by providing the latter quality products and services with the end view of satisfaction.



OUR MISSION

LEDE 168 Corporation is committed to provide the best price- performance products that are in accordance to International Standards. We are devoted in establishing long term relationship based on Trust, Integrity, Respect, Value and Client Satisfaction. We pursue to strive more on the growth of the Construction Industry and to provide our clients with the best quality services.

OUR VISION

Our vision is to be the leading provider of high quality Fire Protection products in the Country; our aim is to save lives and to protect properties. Our customer's protection is the success of our company.



300psi
Rigid Coupling
XGQT1



300psi
Flexible Coupling
XGQT2



500psi
Rigid Coupling(Heavy-duty)
M1



500psi
Flexible Coupling(Heavy-duty)
M2



Reducing Coupling
XGQT3



Adaptor Flange
XGQT08



Grooved Flange
XGQT09



Threaded Flange
XGQT02



Cap
XGQT06



Cap with Eccentric hole
XGQT061



Tee
XGQT03



Cross
XGQT05



Threaded Reducing Tee
XGQT03



Grooved Reducing Tee
XGQT03



Grooved Reducing Cross
XGQT05



11.25" Elbow
XGQT013



22.5° Elbow
XQQT012



45° Elbow
XQGTO11



90° Elbow
X3QT01



90° Reducing Elbow
XGQT014

HDPE Coupling
HDPE

U Bolt Mechanical Tee
XGQT041



Threaded Mechanical Tee
XGOT04



Grooved Mechanical Tee
XGQT04



Grooved Mechanical Cross
XGQT04



Threaded Mechanical Cross
XGOT04



Threaded Reducer
XGQT07



Grooved Reducer
XGDT07

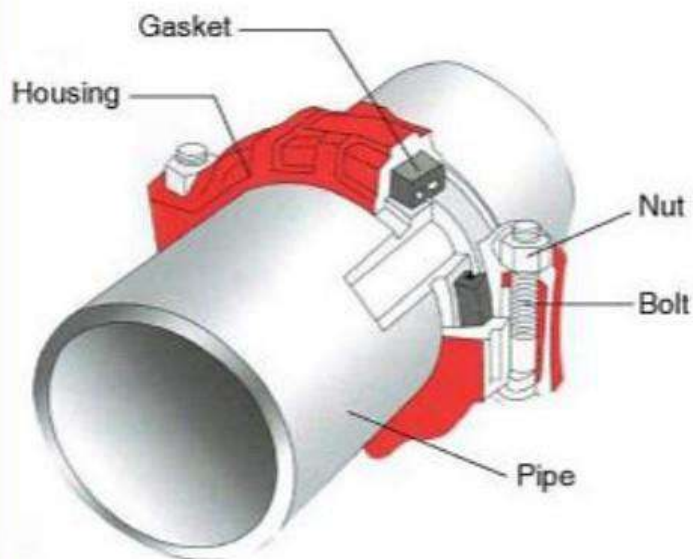


Grooved Eccentric Reducer
XGQT071



Threaded Eccentric Reducer
XGQT071

Pipe
Preparation



Grooved Pipe



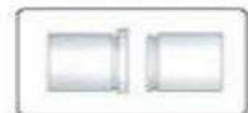
Gasket



Lubricate the gasket



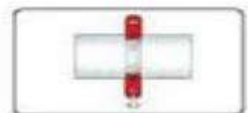
Slide another pipe end



Close another pipe end



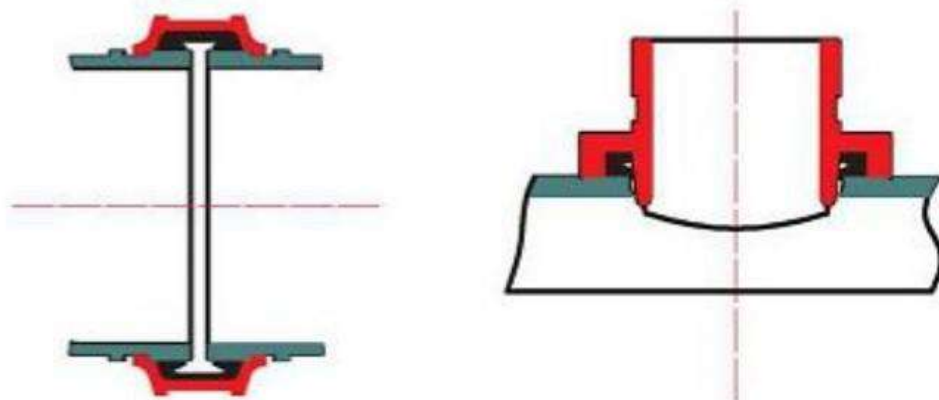
Slide another pipe end into the gasket



Place the housings over the gasket



Tighten the bolts and nuts



Nominal	Size	Pipe O.D.	A1	B1	C1	C		T	F
INCH	DN	MM	MM	MM	MM	BASIC SIZE MM	TOLERANCE MM	MM	MM
1"	25	33.7	15.9	7.2	1.6	30.2	-0.38	1.8	34.5
1 1/4"	32	42.4	15.9	7.2	1.6	39	-0.38	1.8	43.3
1 1/2"	40	48.3	15.9	7.2	1.6	45.1	-0.38	1.8	49.4
2"	50	60.3	15.9	8.8	1.6	57.2	-0.38	1.8	62.2
2 1/2"	65	73	15.9	8.8	2.0	69.1	-0.46	2.3	75.2
2 1/2"	65	76.1	15.9	8.8	2.0	72.3	-0.46	2.3	77.7
3"	80	88.9	15.9	8.8	2.0	84.9	-0.46	2.3	90.6
4"	100	114.3	15.9	8.8	2.1	110.1	-0.51	2.3	116.2
5"	125	139.7	15.9	8.8	2.1	135.5	-0.51	2.9	141.7
5"	125	141.3	15.9	8.8	2.1	137	-0.56	2.9	143.5
6"	150	165.1	15.9	8.8	2.2	160.9	-0.56	2.9	167.1
6"	150	168.3	15.9	8.8	2.2	164	-0.56	2.9	170.7
8"	200	219.1	19.1	11.9	2.4	214.4	-0.64	2.9	221.5
10"	250	273	19.1	11.9	2.4	268.3	-0.69	3.6	275.4
12"	300	323.9	19.1	11.9	2.8	318.3	-0.76	4.0	326.2

A1 ±0.76

Gasket seat

C Groove diameter

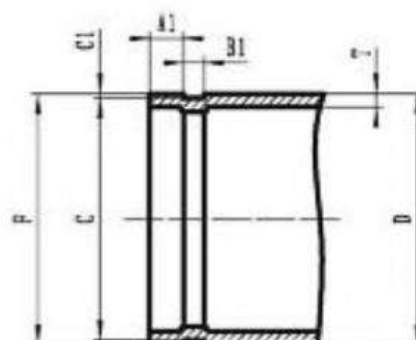
C1 Groove depth

B1 ±0.76

Groove width

T Minimum thickness(pipe thickness)

F Maximum flare



ITEM	SIZE		UNIT Wt.	MATERIAL SPECIFICATION
	IN.	MM	KGS	
 Z41X-03 300PSI Flanged Resilient OS&Y Gate Valve	2"	50	14.60	1. Valve Body: ASTM A536, 65-45-12 2. Resilient Wedge Disc: ASTM A536, 65-45-12+EPDM 3. O-Ring: NBR 4. Stem: SS304 or 1Cr17Ni2 OR 2Cr13 5. Bonnet Gasket: EPDM 6. Bonnet: ASTM A536, 65-45-12 7. Yoke: ASTM A536, 65-45-12 8. Gland: ASTM A536, 65-45-12 9. Hand wheel: ASTM A536, 65-45-12 10. Epoxy Coating Color: RAL3000 11. Pressure Rating: 300PSI
	2 1/2"	65	17.64	
	3"	80	23.00	
	4"	100	31.85	
	5"	125	42.21	
	6"	150	53.13	
	8"	200	91.25	
	10"	250	134.52	
 Z81X 362PSI Grooved Resilient OS&Y Gate Valve	2"	60	11.09	1. Valve Body: ASTM A536, 65-45-12 2. Resilient Wedge Disc: ASTM A536, 65-45-12+EPDM 3. O-Ring: NBR 4. Stem: SS304 or 1Cr17Ni2 OR 2Cr13 5. Bonnet Gasket: EPDM 6. Bonnet: ASTM A536, 65-45-12 7. Yoke: ASTM A536, 65-45-12 8. Gland: ASTM A536, 65-45-12 9. Hand wheel: ASTM A536, 65-45-12 10. Epoxy Coating Color: RAL3000 11. Pressure Rating: 362PSI
	2 1/2"	73	12.23	
	3"	89	16.68	
	4"	114	23.90	
	5"	(14 0)1 41	33.13	
	6"	165	40.99	
	6"	168	40.99	
	8"	219	73.62	
 Z45X-03 300PSI Flanged Resilient NRS Gate Valve	2"	50	12.94	1. Valve Body: ASTM A536, 65-45-12 2. Resilient Wedge Disc: ASTM A536, 65-45-12+EPDM 3. O-Ring: EPDM OR NBR 4. Stem: SS304 or 1Cr17Ni2 OR 2Cr13 5. Bonnet: ASTM A536, 65-45-12 6. Gland: ASTM A536, 65-45-12 7. Stem Cap: ASTM A536, 65-45-12 8. Bonnet Gasket: EPDM 10. Epoxy Coating Color: Body RAL3000/Actuator RAL9011 11. Pressure Rating: 300PSI
	2 1/2"	65	15.93	
	3"	80	20.94	
	4"	100	28.14	
	5"	125	37.22	
	6"	150	46.83	
	8"	200	78.87	
	10"	250	110.05	
 OSYSU-1 Potter Brand OS&Y Supervisory Switch	Adjustable Size 2"-12"		0.73	1. -40o to 140o (-40oC to 60oC) operating temperature range 2. Visual switch indicators 3. Two conduit entrances 4. Adjustable length trip rod 5. Accommodates up to 12AWG wire 6. Three position switch detects tampering and valve closure 7. Knurled mounting bracket prevents slipping 8. Fine adjustment feature for fast, easy installation 9. RoHS compliant 10. One or two SPDT contact models

AWWA C515 Resilient seated OS&Y gate valve-flange end

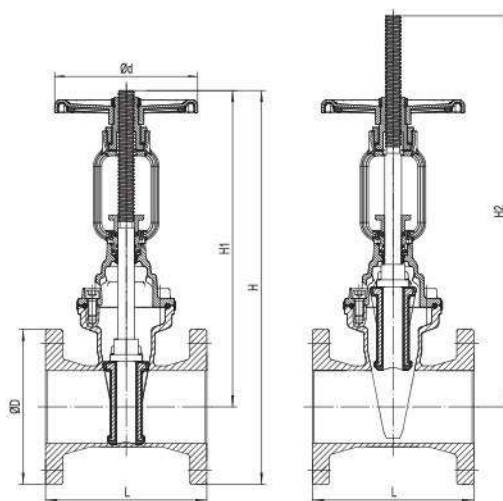
Model No. Z41X-03



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
Sliding disc	Bronze
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron

Technical data >

- Sizes: 2" ~ 12"
- Working pressure: 175PSI, 300PSI
- Valve standard: AWWA C515
- Flange standard: ASME-B16.1 Class125
- Temperature range: 0 ~ 80℃



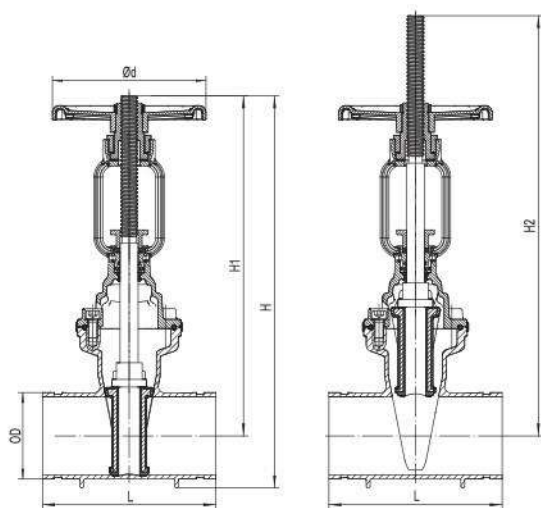
Dimensions		Pressure rating	Size (mm)					
DN	inch	psi	ΦD	L	H1	H2	H	Φd
50	2	175	152	178	358.5	420.5	434.5	203
		300						
65	2.5	175	178	190	359.5	429.5	448.5	203
		300						
80	3	175	191	203	378	462	473.5	203
		300						
100	4	175	229	229	449.5	553	564	203
		300						
125	5	175	254	254	549.5	677	676.5	300
		300						
150	6	175	279	267	591.5	747	731	300
		300						
200	8	175	343	292	735.5	938	907	330
		300						
250	10	175	406	330	900.5	1161	1103.5	406
		300						
300	12	175	483	356	1045.5	1353	1287	406
		300						

Resilient seated OS&Y gate valve-grooved end

Model No. Z81X



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
Sliding disc	Bronze
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron

**Technical data** >

- Sizes: DN50/60~DN200/219
- Working pressure: PN25, 362PSI
- Valve standard: AWWA C515
- Grooved standard: AWWA C606
- Temperature range: 0 ~ 80 °C

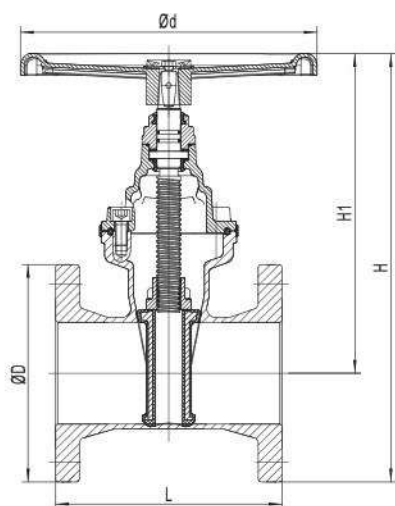
Dimensions		Pressure rating	Size (mm)					
DN	inch	psi	OD	L	H1	H2	H	Φd
50	2	362	60.3	178	358.5	420.5	403.5	203
65	2.5	362	73	190	359.5	429.5	411	203
			76.1					
80	3	362	88.9	203	378	462	437.5	203
100	4	362	114.3	229	449.5	553	518.5	203
125	5	362	139.7	254	549.5	677	631	300
			141.3					
150	6	362	165.1	267	591.5	747	686	300
			168.3					
200	8	362	219.1	292	735.5	938	865	330

AWWA C515 Resilient seated NRS gate valve-flange end

Model No. Z45X-03



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
Upper cover	Ductile iron
Sliding disc	Bronze
Screw	Carbon steel with hot galvanization
O-rings	EPDM
Handwheel	Ductile iron

**Technical data** >

- Sizes: 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
50	2	175	152	178	256	332	203
		300					
65	2.5	175	178	190	256	345	203
		300					
80	3	175	191	203	273.5	369	203
		300					
100	4	175	229	229	323.5	438	300
		300					
125	5	175	254	254	376	503	300
		300					
150	6	175	279	267	423.5	563	300
		300					
200	8	175	343	292	530.5	702	406
		300					
250	10	175	406	330	645	848	406
		300					
300	12	175	483	356	725.5	967	406
		300					

FEATURES



Realflex® flexible hose for sprinkler industry

► Safe & Reliable

Realflex® flexible hoses are manufactured in corrosion resistant AISI 304 stainless steel with high performance fittings and seals, hoses are 100% leak tested prior to leaving the factory. The rated working pressure is 14bar/200psi with a burst test pressure of 70bar/ 875psi and environmental temperature resistance of 107°C/225°F.

► Easy Installation

No special tools are required to install Realflex® hoses, not cutting, no more threading, just the simple use of a wrench, screw driver and pipe sealing tape is all that's required to have your Realflex® hose installed in the minimal amount of time. Realflex® unique hose flexibility combined with the use of an optional 90° elbow and reducer allows hoses to be fixed in confined space installations.

► A Cost Saver

The unique Realflex® hose design provides a real costing saving in time against traditional hard pipe systems, our factory bench tests have demonstrated Realflex® hose installations have significantly reduced installation time against traditional hard pipe systems, providing potential time and on site cost savings.

► Environmentally friendly

No waste, not cutting Realflex® flexible hoses can be re-shaped, relocated to suit final sprinkler location on the ceiling tile without draining the system. No sprinkler displacement after pressure test, eliminating the need for an oversized ring around the sprinkler.

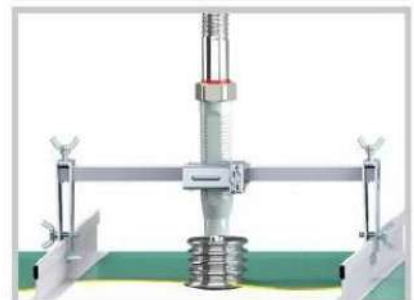
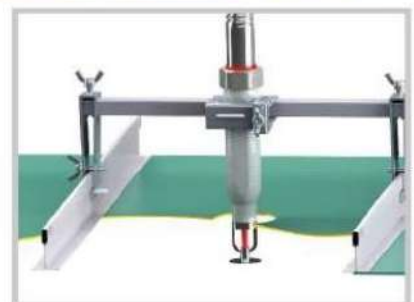
► Seismically

Realflex® stainless steel hoses in the case of an earthquake can absorb seismic shock, assisting the sprinkler system to maintain normal operation.

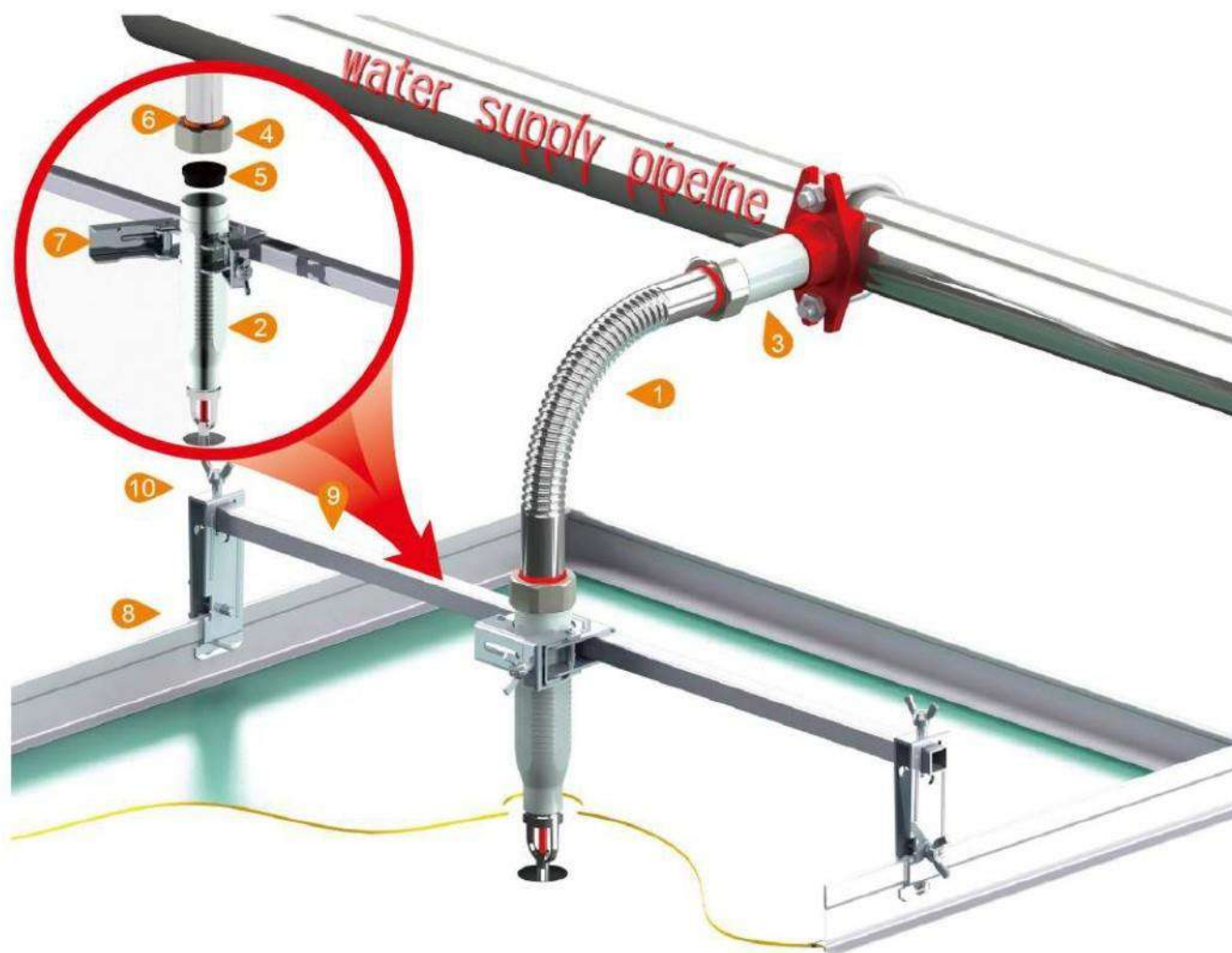
**Note: Carefully read and understand INSTALLATION INSTRUCTION (publication code RF-Pub-100) prior installation and maintenance, hose bending MUST follow installation instructions.*

WHY REALFLEX?

1. Realflex® provides 25% extra length to discharge nipple (up to 140mm) and 50% extra height to side bracket (102mm), it creates universal solution for installation of all different sprinklers, including flush or concealed pendent sprinklers.
2. Discharge nipple with retaining grooves and unique side brackets design works with all variable suspending T-bar grid & wood or metal joist/stub hard-lid ceiling systems.
3. All fixing screws and bolts are available with wing-head, improving installation speed.
4. Simply add 4x sheet-metal screws will build a tamper-resistant installation.
5. Supporting square bar with extra 50% thickness than competition, with true 1.20mm/ 3/64 inches, provides better structure rigidity and stabilize the sprinkler head during installation, pressurization or activation.
6. Each Realflex® flexible hose is able to tracing to the production date and shift.
7. Pre-assembled brackets with square bar is available upon request.



STRUCTURE & MATERIAL SPECIFICATIONS



Main components & material:

Refer. No.	Description	Material	Numbers of each standard set
1	Corrugated tube Braid & collar-rings*	AISI 304 Stainless steel	1
2	Discharge nipple(elbow)	Galv. Steel ASTM 1020	1
3	Inlet nipple	Galv. Steel ASTM 1020	1
4	Hexagon slip nut	Galv. Steel ASTM 1020	2
5	Gasket	EPDM	2
6	Isolation ring	Nylon 66	2
7	Center bracket	Galv. steel ASTM A283 Gr. D	1
8	Side bracket	Galv. steel ASTM A283 Gr. D	2
9	Square bar	Galv. steel ASTM A283 Gr. B	1
10	Bolts & screws	Galv. steel ASTM A283 Gr. D	1 set

*Exist in RF-200, RF-200IB, RF-200CR series only.



RF 22400
Isolation board fixture



RF 11103
Gasket
RF 11104
Isolation ring



RF 12101
25" Square bar
RF 12102
50" Square bar
RF 12103
55" Square bar
RF 12104
40" Square bar
RF 12105
25" Square bar

MECH BI FITTINGS

					
90 90° Elbow	90R 90° Reducing Elbow	90U 180° Return Elbow	92 90° Street Elbow	92R 90° Reducing Street Elbow	96A Union Elbow
					
120 45° Elbow	121 45° Street Elbow	130 Tee	130R Bull Head Tee	130R Reducing Tee	130R Reducing Tee
					
130R Reducing Tee	130R Reducing Tee	134 Service Tee	165 45° Lateral Y Branch	180 Cross	180R Reducing Cross
					
220 Coupling	220S L&R Coupling	240 Reducing Coupling	240T Tapped Reducing Coupling	241 Outside Hex Bushing	241N Inside Hex Bushing
					
245 Reducing Hexagon Nipple	280 Hexagon Nipple	246 Reducing Extension Piece	529A Extension Piece	291 Cored Plug	291S Solid Plug

MECH BI FITTINGS



291N
Counterbore Plug



291-4
Bar Head Plug



300
Cap



310
Locknut



320
Wastenut



321
Floor Flange



321W
Floor Flange without Hole



342
Union with Brass Seat



1221
Side Outlet Elbow



1223
Side Outlet Tee



1224
Side Outlet Cross



LCC
Long Compression Coupling



WJFL
Tee Flange

PROSTAR PIPE HANGERS AND SUPPORTS

PST CLEVIS HANGER

TECHNICAL SPECIFICATIONS

1. Surface Treated: Electro- Galvanized
2. The bolts threaded per UNC Standard
3. Tolerance of Material width: 1/2"-2": ± 0.5 mm, 2-1/2"-4": ± 1.0 mm, Above 4": ± 2.0 mm

Material Thick: 1/2"-4": ± 0.25 mm, Above 4": ± 0.5 mm

FEATURES

1. Combine with a threaded rod or other fastener to hang from the ceiling.
2. To mount, slide threaded rod into the unthreaded hole on top of the hanger and secure with a nut.
3. When used with threaded rod, the hanging height can be adjusted after material is installed.



PST SWIVEL LOOP HANGER

TECHNICAL SPECIFICATIONS

1. Surface Treatment: Electro-Galvanized
2. The bolts threaded per UNC Standard
3. Tolerance: ± 0.1 mm except for specialized

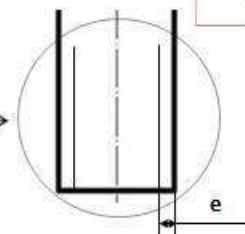
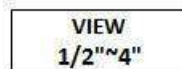
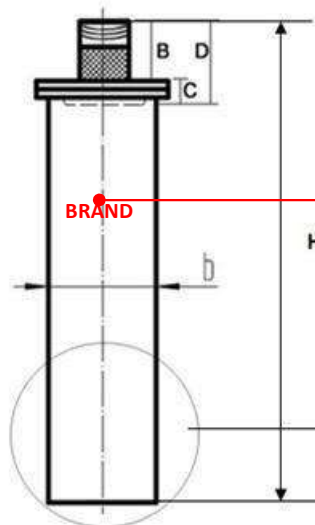
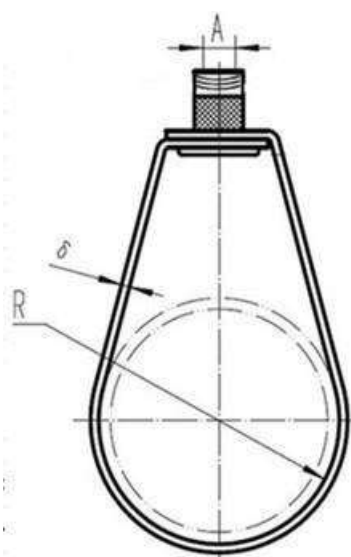


PST U-BOLTS

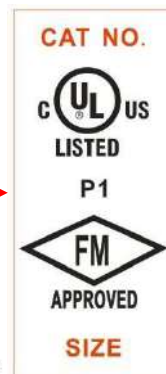
TECHNICAL SPECIFICATIONS

1. Surface Treatment: Zinc Plated
2. Material: Carbon Steel





FM



Technical Specifications:

- 1.Surface Treatment: Pre-Galvanized
- 2.The Loop Nuts thread per UNC standard
- 3.Tolerance: $\pm 0.1\text{mm}$ except for specialized

[illegible]

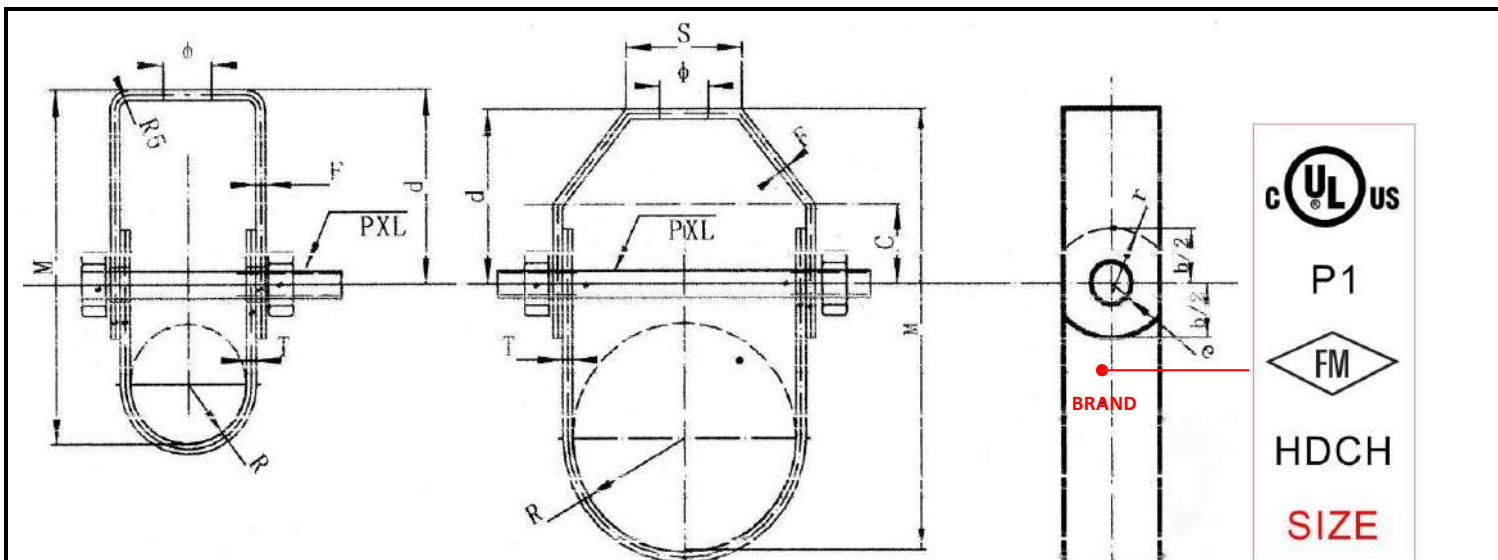
CLEVIS HANGER

Features:

- Combine with a threaded rod or other fastener to hang from the ceiling
- To mount, slide threaded rod into the unthreaded hole on top of the hanger and secure with a nut
- When used with threaded rod, the hanging height can be adjusted after material is installed
- UL(1/2"~6") & FM(3/4"~5") Approved

Standard Material:

- Carbon Steel - Zinc plated
- - Plain Oil Finished
- - Hot Dip Galvanized



Technical Specifications:

1. Surface Treatment: Electro - Galvanized
2. The Bolts thread per UNC standard
3. Tolerance of material width: 1/2"~2" : +/-0.50mm ,2-1/2"~4": +/-1.0mm, Above 4": +/-2.0mm
material thick : 1/2"~4" : +/-0.25mm ,Above 4": +/-0.5mm

CAT NO.	SIZE	M	d	S	C	ϕ	R	e	r	P	TxB	FxB	Max Load
unit is "mm" except for specialized													lbs
HDCH-050	1/2"	71.0	39.0	\	\	10.0	12.0	7.0	35.0	1/4"	2x22	2x22	250
HDCH-075	3/4"	76.0	39.0	\	\	10.0	15.0	7.0	35.0	1/4"	2x22	2x22	250
HDCH-100	1"	84.0	39.0	\	\	10.0	18.5	7.0	35.0	1/4"	2x22	2x22	250
HDCH-125	1-1/4"	93.0	39.0	24.0	20.0	10.0	23.0	7.0	36.0	1/4"	2x22	2x22	250
HDCH-150	1-1/2"	101.0	39.0	24.0	20.0	10.0	26.5	7.0	36.0	1/4"	2x22	2x22	250
HDCH-200	2"	112.0	39.0	24.0	20.0	10.0	32.5	7.0	36.0	1/4"	2x22	2x22	250
HDCH-250	2-1/2"	136.0	51.0	28.0	24.0	14.0	39.5	10.5	40.0	3/8"	3x30	3x30	350
HDCH-300	3"	152.0	51.0	32.0	24.0	14.0	47.5	10.5	40.0	3/8"	3x30	3x30	350
HDCH-400	4"	190.0	52.0	42.0	24.0	17.0	61.0	10.5	40.0	3/8"	3x30	4.5x30	400
HDCH-500	5"	225.0	64.0	50.0	24.0	17.0	75.0	13.5	40.0	1/2"	4.5x30	6x30	1,430
HDCH-600	6"	254.0	64.0	60.0	30.0	20.0	88.5	13.5	50.0	1/2"	4.5x38	6x38	1,940
HDCH-800	8"	324.0	85.0	75.0	30.0	23.5	115.0	17.0	50.0	5/8"	4.5x38	6x38	2,000
HDCH-1000	10"	423.0	120.0	95.0	40.0	23.5	142.0	20.0	75.0	3/4"	6.0x50	8x50	3,600
HDCH-1200	12"	475.0	120.0	115.0	40.0	23.5	168.5	20.0	75.0	3/4"	6.0x50	8x50	3,800



FIRE SPRINKLER HEAD

FESCO Sprinklers are thermo-sensitive glass bulb sprinklers available in different finishes and temperature rating to meet design requirements. These sprinklers are standard spray pattern to meet approval of agencies requirements. The Nickel-Chrome plated sprinklers are decorative & attractive so it is well matched to customer's interior decoration. In addition, Nickel-Chrome plating might be utilized to extend the life of copper alloy sprinkler, although it has passed the standard corrosion test.

GLASS BULB TYPE SPRINKLER



Pendent Type
UL/FM

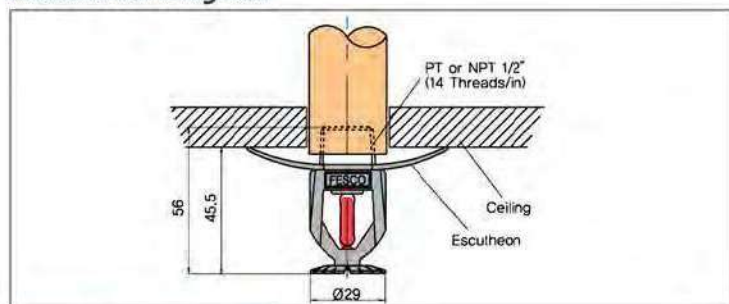


Upright Type
UL/FM

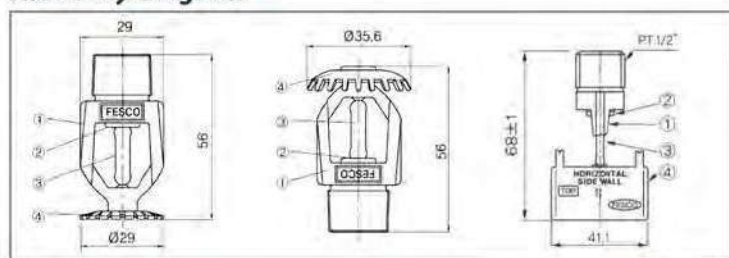


Sidewall Type
UL/FM

Installation Diagram



Assembly Diagram



Fesco Glass bulb type sprinkler is especially designed to meet various customer requirements. It uses glass bulb which contains special liquid instead of conventional fuse. The glass bulb simplifies sprinkler structure and ensure stable operation in varying ambient temperature.

Specification

Sprinkler Type	Pendent	Upright	Sidewall
Working Temperature	68°C(155°F)		93°C(200°F)
Max Ambient Temperature	38°C(100°F)		66°C(150°F)
Temp. Indication Color	Red		Green
Connection Screw Size	15A (PT 1/2", NPT 1/2")		
Orifice Size	Ø11.2mm		
Test Pressure	Rated Water Press: 500psi(3.5 Mpa) Air Press: 100psi(0.7 MPa)		
Max Pressure	175psi(1.23Mpa)		
Flow Rate	80 l/min - 0.1Mpa(K=80)		
Glass Bulb	G5(5mm)		
Weight(KG)	8		
Packaging(Ea)	100		

NO	Part	Material
1	Frame	Forge Brass
2	Bulb Cap	Phospor Bronze
3	Glass Bulb	-
4	Deflector	Copper

GLASS QUICK RESPONSE TYPE SPRINKLER



Pendent Type
UL/FM

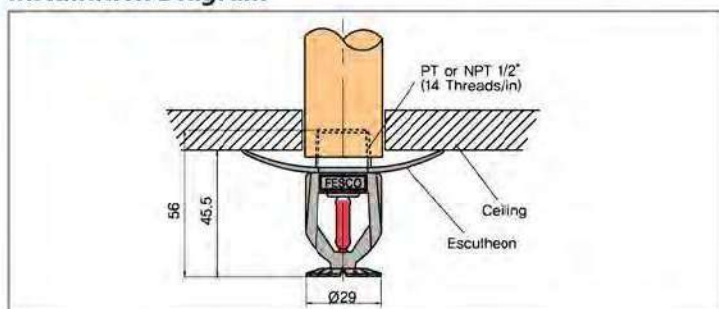


Upright Type
UL/FM



Sidewall Type
UL/FM

Installation Diagram

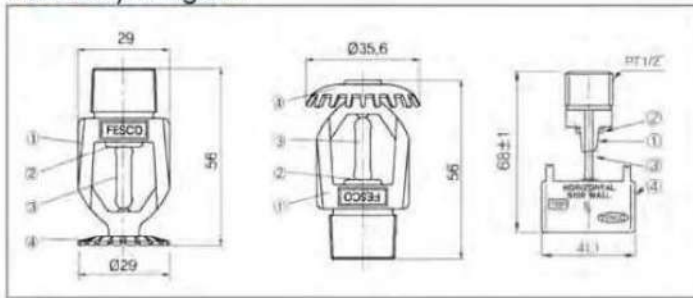


Fesco Quick Response Type Sprinkler reacts to heat faster than any regular sprinkler. Ideally designed for in populated areas where mass human loss or injuries can be occurred such as schools, hospitals, office buildings, hotels, restaurants, auditoriums and other facilities with similar occupancy.

Specification

Sprinkler Type	Pendent	Upright	Sidewall
Working Temperature	68°C(155°F)		93°C(200°F)
Max Ambient Temperature	38°C(100°F)		66°C(150°F)
Temp. Indication Color	Red		Green
Connection Screw Size	15A(PT 1/2", NPT 1/2")		
Orifice Size	Ø11.2mm		
Test Pressure	Rated Water Press (500psi)3.5MPa Air Press: (100psi)0.7MPa		
Max Pressure	(175psi)1.23MPa		
Flow Rate	80 /min - 0.1MPa(K=80)		
Glass Bulb	F3(3mm)		
Weight(KG)	8kg / Box		
Packaging(Ea)	100		

Assembly Diagram



NO	Part	Material
1	Frame	Forge Brass
2	Bulb Cap	Phospor Bronze
3	Glass Bulb	-
4	Deflector	Copper

ESCUTCHEON PLATE

	Type	Size
	Flat for Sidewall Sprinkler Head	1/2" NPT 3/4" NPT
	Recessed for Pendent Sprinkler Head	1/2" NPT 3/4" NPT

INSTALLATION

FESCO Sprinklers are intended for fire protection systems designed in accordance with the standard installation rules of the applicable listings or approval agency (eg. NFPA 13 or FM's Loss Prevention Data Sheets). **Note: Do not install any bulb type sprinkler if the bulb is cracked or there is a loss of fluid from the bulb. And with the sprinkler held horizontally a small air bubble should be present. The sprinkler joint should be obtained with maximum torque of 28.5 Nm (21 ft-lbs).**

OPERATION

When the rated temp. is reached, the fluid which is contained in the glass bulb expands sufficiently to shatter the glass bulb, releasing the bulb cap & spring seat assembly. Water flowing through the sprinkler orifice & strikes the deflector forming an intended spray pattern to extinguish or control the fire.

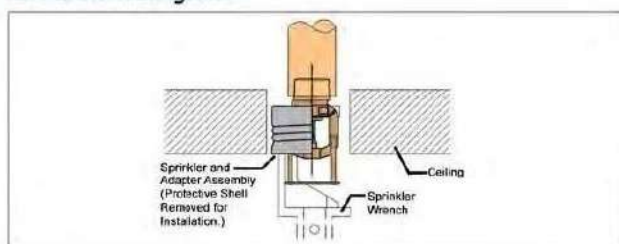
CONCEALED TYPE SPRINKLER



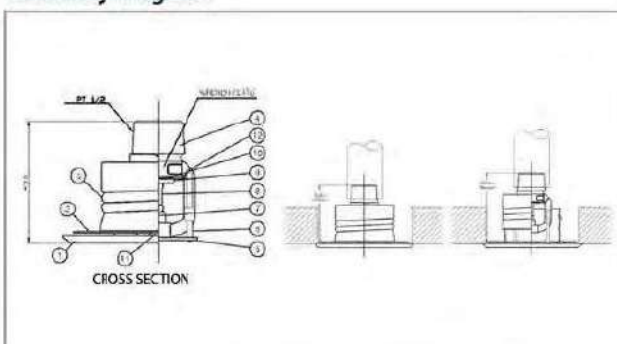
Fesco Standard and Quick Response Concealed Pendent Sprinkler P820 and P821 are thermosensitive glass-bulb spray sprinklers with the cover plate. The sprinkler is pre-assembled with a threaded adapter for installation with a low-profile cover assembly that provides up to 10mm of vertical adjustment.

The two-piece design allows installation and testing of the sprinkler prior to installation of the cover plate. The "thread-on", "thread-off" design of the concealed cover plate assembly allows easy installation of the cover plate after the system has been tested and the ceiling finish has been applied. The cover assembly can be removed and reinstalled, allowing temporary removal of ceiling panels without taking the sprinkler system out of service or removing the sprinkler.

Installation Diagram



Assembly Diagram



Maximum Working Pressure

Minimum Operating Pressure	7 psi (0.5 bar)
Maximum Working Pressure	175 psi (12 bar)
Discharge Coefficient:	K = 5.6 GPM/psi ^{1/2} (30.7 LFM/bar ^{1/2})
Temperature Rating	Sprinkler: 68°C (155°F) / 93°C (200°F) Cover Assembly: 57°C (135°F) / 74°C (165°F)
Leakage Test at Factory (Air)	426.7 psi (0.3Mpa, 29.4bar,) 30 Kg/cm ²
Connection Screw Size	15A (PT 1/2", NPT 1/2")

Material

Frame Forging	Brass A51568 Alloy485
Deflector	Copper C2680S
Spring Seat	Ni-Be alloy, coated on both sides with Teflon Tape
Bulb	Glass
Bulb Cap	Phosphor Bronze C5191
Screw	Brass C3604

NO	Part	NO	Part	NO	Part	NO	Part
1	Cover Plate	4	Frame	7	Screw	10	Spring Seat
2	Retainer	5	Deflector	8	Glass Bulb	11	Plate Spring
3	Cover Adapter	6	Deflector Pin	9	Bulb Cap	12	Spring

GLOBAL CAST ANGLE VALVE



AVF150-I

AVF250-I

- Double Female
- NPT inlet and outlet only
- Aluminum Handwheel
- working pressure: 300 PSI
- alloy=yellow DZR brass
- U/L listed and FM approved



AV150-I

AV250-I

- Female Inlet
- male NH outlet
- NPT inlet thread only
- aluminum handwheel
- working pressure: 300 PSI
- alloy= yellow DZR brass
- U/L listed and FM approved

SINGLE CLAPPER SIAMESE CONNECTIONS



ISCS4025F

Back Outlet

21-201

- Material: Cast Brass
- Branding: Auto Spkr
- Finish: P Polished
- C Polished Chrome Plated
- working pressure: 250 psi
- U/L listed and FM approved



90SCS4025F

Bottom Outlet

21-201

- Material: Cast Brass
- Branding: Auto Spkr
- Finish: P Polished
- C Polished Chrome Plated
- working pressure: 250 psi
- U/L listed

WEDGE DISC GATE VALVE



GWDGV250F

19-281

Female NPT x Male

- Material: Cast Brass
- Red iron wheel handle with cap and chain
- Cap not included on NYFD threaded valve
- Solid wedge disc with tapered seats
- 2 1/2" U/L listed and FM approved
- working pressure: 300 psi

LEDE
Superior Grooved Fittings
Proven and trusted worldwide!

FEMALE CHECK SNOOTS

CSCTF25F30T-P

- Material: Cast Brass
- Finish: P Polished
- Inlet: 2-1/2" female NST (NH)
- Outlet: 3" female NPT
- U/L listed



STRAIGHT TWO WAY ROOF MANIFOLD

IRC4025

Back Inlet

26-294

- Material: Cast Brass
- Finish: P Polished
C Polished Chrome Plated
- working pressure: 175 psi
- U/L listed



BRASS CAPS - PIN LUG

FC250F

17-126

- Material: Cast Brass
- Finish: P Polished
C Polished Chrome Plated
- Not intended for pressure application
- for debris and thread protection



BRASS ADJUSTABLE FOG NOZZLE

BFN150NST

- Material: Brass
- Finish: P Polished
C Polished Chrome Plated
- working pressure: 175 psi
- supplied with bumper
- U/L listed and FM approved



BRASS PLUGS - PIN LUG

FP250F

Plug with pin lug

17-127

- Material: cast brass
- Finish: -P Polished,
-C polished chrome plated
- Not intended for pressure application
- for debris and thread protection



BRASS (open snoots) FEMALE SWIVEL ADAPTERS W/PIN LUGS

SF250F-P

Double Female rigid hexagon to swivel connection

23-270

- Material: cast brass
- Finish: -P Polished,
-C polished chrome plated



FIRE HOSE CABINET



- ✓ CAL colored aluminum frame and box made of steel gauge #18 with push lock and keys and 1/8" clear glass 32"x27"x7
- ✓ Semi-automatic hose rack assembly 1-1/2
- ✓ Dixon Powhatan brass angle valve F/F, UL/FM 1-1/2"
- ✓ Dixon Powhatan brass adjustable fog nozzle, UL/FM 1-1/2"
- ✓ Hose rack nipple cast brass 1-1/2"
- ✓ Fire hose double jacket w/ male & female couplings 1-1/2" x 100 ft
- ✓ First Step ABC dry chemical fire extinguisher 10 lbs (2 years warranty)

TWT-III

PIPE THREADING MACHINE

- This machine is designed to cut threads on 1/2"-4" pipes. It's very easy to operate. Make the ends of the pipes very smooth when cutting threads.
- The base is casting aluminum. With large module gear box and heavy expansion chuck.
- Machine is very strong and stable. Very suitable for heavy duty projects.

Specifications

Capacity: 1/2"-4"

Power: 0.75kw

Output RPM : Slow 9 rpm; Quick 26rpm

G.W: 196kgs

Packaging size: 107×72×70(cm)

Standard equipment:

Cutting frame	1 set	image (1)
Die head	1/2"-2", 2 1/2"-4" 1set for each size	image (2)
Reamer	1 set	image (3)
Dies	1/2"-3/4", 1"-2", 2 1/2"-4" 1set for each size	image (4)

Note: Available format of dies: NPT/BSPT



(1)



(2)



(3)



(4)

Specifications

Capacity

2"-12" (Ø 60-Ø 325) SCH40 steel pipe

2"-12" (Ø 60-Ø 325) SCH10S SCH5S SCH10 SCH5 thin wall steel pipe

Max. wall thickness: 10mm

Output RPM : 23rpm

G.W: 158kgs

Packaging size: 78x70x92(cm)

TWG-IIA

ROLL GROOVING MACHINE

- This machine is designed for grooving 2"-12" steel pipe
- Powered by high-performance gear reducing motor contributing to compact size and low noise
- Unique integral hydraulic pump structure and groove depth limitation device ensure high quality grooves and high working efficiency



(2)



(1)

Optional Equipment

*For SCH10S SCH5S SCH10 SCH5 thin wall steel pipe

Art.No.	Description	N.W(kgs)
09.03.009	thin-wall knurl wheel Φ60-Φ76	0.55
09.03.010	thin-wall knurl wheel Φ89-Φ168	1.28
09.03.011	thin-wall knurl wheel Φ219-Φ325	1.43



(5)

(4)

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(6)

Art.No.	Phase	Voltage	Frequency
08.01.002.01	single phase	110/120/220/230/240V	50/60HZ
08.01.002.02	Three phase	220/380/415/440V	50/60HZ

Standard Equipment

*For SCH40 steel pipe

Art.No.	Description	N.W(kgs)	Ref No.
09.02.031	Pipe stand	18	(2)
03.01.01.016	Knurl wheel Φ60-Φ76	0.545	(3)
03.01.01.015	Knurl wheel Φ89-Φ168	1.265	(4)
03.01.01.014	Knurl wheel Φ219-Φ325	1.415	(5)
03.01.01.026	Pinch roller Φ60-Φ168	0.885	(6)
03.01.01.025	Pinch roller Φ219-Φ325	0.85	(7)

*Reminding: Please select TWG-IVA if groove large number of 12 inch pipes

TWG-11A

ROLL GROOVING MACHINE

- This machine is a portable manual grooving machine
- Equipped with unique knurl wheels for grooving 3/4"-8" pipe
- Allow to be mounted to a RIDGID 300 power drive

Specifications

Capacity

3/4"-8" (Ø 27-Ø 219) SCH40 steel pipe

Max. wall thickness: 7mm

G.W: 13kgs

Packaging size: 25x15x25(cm)



(2)

(3)



(4)

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(7)

(8)



(9)



(1)

Standard Equipment

*For SCH40 steel pipe

Art.No.	Description	N.W(kgs)	Ref No.
08.01.030	Machine	10	(1)
03.01.19.004	Knurl wheel Ø27-Ø33	0.4	(2)
03.01.19.005	Knurl wheel Ø42-Ø48	0.5	(3)
03.01.19.006	Knurl wheel Ø60-Ø168	0.7	(4)
03.01.19.007	Knurl wheel Ø219	0.8	(5)
03.01.19.001	Pinch roller Ø27-Ø48	0.1	(6)
03.01.19.002	Pinch roller Ø60-Ø168	0.12	(7)
03.01.19.003	Pinch roller Ø219	0.12	(8)

TWG-9A

ROLL GROOVING MACHINE

- The new model of roll grooving machine TWG - 9A, including working capacity of TWG-III A, TWG-VA and TWG-VA-R, it is more efficient and stable
- Equipped with stronger power and make rollers change quick and simple
- Equipped with the new designed folding carriage, it is simple to assemble and move it

Specifications

Capacity

1"-8" (Ø 33-Ø 219) SCH40 steel pipe

Max. wall thickness: 8mm

Output RPM : 23rpm

G.W: 82kgs

Packaging size: 75×41×72(cm)

Art.No.	Phase	Voltage	Frequency
03.01.026.01	Single phase	110/120/220/230/240V	50/60HZ
03.01.026.02	Three phase	220/380/415/440V	50/60HZ

Standard Equipment

*For SCH40 steel pipe

Art.No.	Description	N.W(kgs)	Ref No.
09.02.051	Pipe stand	6.5	(1)
03.01.14.001	Knurl wheel Φ33-Φ48	1.55	(2)
03.01.14.002	Knurl wheel Φ57-Φ89	1.195	(3)
03.01.14.003	Knurl wheel Φ108-Φ168	1.775	(4)
03.01.14.004	Knurl wheel Φ219	1.635	(5)
03.01.14.016	Pinch roller Φ33-Φ48	1.12	(6)
03.01.14.015	Pinch roller Φ57-Φ168	0.76	(7)
03.01.14.014	Pinch roller Φ219	0.665	(8)





TWQ-III A

PIPE CUTTING MACHINE

- Cold extrusion process design, no sparks, dusts and metal chips appear during cutting operation
- The patented oil pump is specially designed to shorten the idle stroke and reduce the working time.
- Equipped with wheels for moving the machines easily

Specifications

Capacity

2"-12" (Ø 60-Ø 325) SCH40 steel pipe

Max. wall thickness: 10mm

Output RPM : 23rpm

G.W: 143kgs

Packaging size: 72×69×97(cm)



(1)



(2)

Art.No.	Phase	Voltage	Frequency
08.02.002.01	Single phase	110/120/220/230/240V	50/60HZ
08.02.002.02	Three phase	220/380/415/440V	50/60HZ

Standard Equipment

*For SCH40 steel pipe

Art.No.	Description	N.W(kgs)	Ref No.
09.02.046	Pipe stand	14	(1)
03.02.01.014	Alloy blade	1.3	(2)

TWQ-VA

PIPE CUTTING MACHINE

- Cold extrusion process design, no sparks , dusts and metal chips appear during cutting operation
- The patented oil pump is specially designed to shorten the idle stroke and reduce the working time
- This machine is designed for cutting 2"-8" steel pipes. With very small and light body which is easy to be transported

Specifications

Capacity

2"-8" (Ø 60-Ø 219) SCH40 steel pipe

Max. wall thickness: 6mm

Output RPM : 23rpm

G.W: 87kgs

Packaging size: 64×60×71(cm)



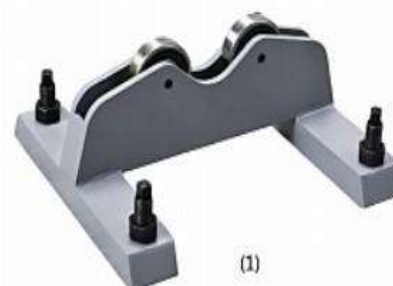
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Art.No.	Phase	Voltage	Frequency
08.02.008.01	Single phase	110/120/220/230/240V	50/60HZ
08.02.008.02	Three phase	220/380/415/440V	50/60HZ

Standard Equipment

*For SCH40 steel pipe

Art.No.	Description	N.W(kgs)	Ref No.
09.02.048	Pipe stand	8	(1)
03.02.01.014	Alloy blade	1.3	(2)



(1)

TWK-III A

HOLE CUTTING MACHINE

- This machine is designed for drilling holes up to 4" on a steel pipe. Equipped with a high-performance low-noise gear reduction motor to offer high torque

Specifications

Capacity
1"-4" (Ø 25-Ø 114) holes
Max hole dia: 114mm
Max wall thickness: 10mm
Output RPM : 110rpm
G.W: 26kgs
Packaging size: 32×32×64(cm)

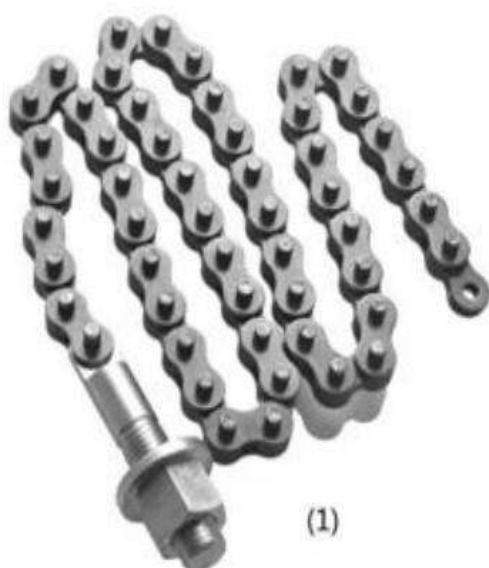


Art.No.	Phase	Voltage	Frequency
08.03.003.01	Single phase	110/120/220/230/240V	50/60HZ
08.03.003.02	Three phase	220/380/415/440V	50/60HZ

Standard Equipment

*For SCH40 steel pipe

Art.No.	Description	N.W(kgs)	Ref No.
09.02.029	Tightening chain	0.9	(1)



TWK-VA

HOLE CUTTING MACHINE

- This machine is designed for drilling holes on plastic pipe, plastic-lining steel pipes and steel pipes. The max diameter of steel pipe is 8 inch and the max hole is 4 inch
- Simple detachable design, especially suitable for working on the corners of the job site.
- Gradienter attached, pointer can indicate the drilling position which will be very efficient

Specifications

Capacity

1"-4" (Ø 25-Ø 114) holes

Max hole dia: 114mm

Max. wall thickness: 10mm

Output RPM : 200~470rpm

G.W: 17.2kgs

Packaging size: 60x20x48(cm)



Art.No.	Phase	Voltage	Frequency
08.03.005.01	Single phase	110/120/220/230/240V	50/60HZ
08.03.005.02	Three phase	220/380/415/440V	50/60HZ

Standard Equipment

*For SCH40 steel pipe

Art.No.	Description	N.W(kgs)	Ref No.
09.02.030	Tightening chain	0.8	(1)

TWT-I

PIPE THREADING MACHINE

- This machine is designed to cut threads on 1/2"-2" pipes. It's very easy to operate. Can make the ends of the pipes very smooth when cutting threads.
- Casting body with large module gear box which is very stable and light.

Specifications

Capacity: 1/2"-2"

Power: 0.75kw

Output RPM : 31rpm

G.W: 77kgs

Packaging size: 74×48×58(cm)

Standard equipment:

Cutting frame 1 set image (1)

Die head 1 set image (2)

Reamer 1 set image (3)

Dies 1/2"-3/4", 1"-2" 1set for each size image (4)

Note: Available format of dies: NPT/BSPT



1T50

PIPE THREADING MACHINE

- This machine is designed to cut threads on 1/2"-2" pipes. It's very easy to operate. Can make the ends of the pipes very smooth when cutting threads.
- Casting body with large module gear box which is very stable and light.

Specifications

Capacity:1/2"-2"

Power:1.8kw

Output RPM:20 rpm/40 rpm

G.W:120kg

Packaging size:122x77x53cm

Standard equipment:

Cart	1 set	image(1)
Machine	1 set	image(2)
Cutting frame	1 set	image(3)
Reamer	1 set	image(4)
Dies 1/2"-3/4", 1"-2"	1 set	image(5)
Dynamic system	1 set	image(6)
Die head	1 set	image(7)

Note: Available format of dies:NPT/BSPT



(1)



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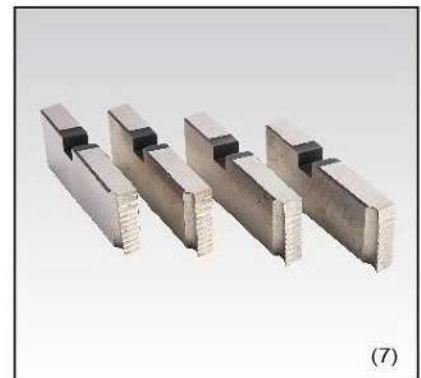
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LIST OF PROJECTS



CONRAD HOTEL – SEASIDE BLVD. PASAY CITY



ROBINSONS GALLERIA – CEBU



CITY OF DREAMS MANILA – ROXAS BLVD, PASAY CITY



THE RADIANCE MANILA BAY – ROXAS BLVD., PASAY CITY



FAME RESIDENCES – EDSA MANDALUYONG



SM 5-ECOM – PASAY CITY



CHONG HUA HOSPITAL – CEBU CITY



PHILIPPINE CULTURAL COLLEGE – QUEZON CITY



HTI FACTORY – CAVITE



YOKOHAMA FACTORY – CLARK PAMPANGA



CCF 20 STOREY BUILDING – PASIG CITY



BENBY LOGISTICS – LAGUNA



MIDPARK TOWERS ASEANA – PARAÑAQUE



HOTEL 101 – CEBU MACTAN AIRPORT



SM SEASIDE CITY CEBU – CEBU CITY



SM NORTH EDSA – QUEZON CITY



NEX 54



TANAWON GEOTHERMAL POWER PLANT – SORSOGON



SOLID LOGISTICS WAREHOUSE – LAGUNA



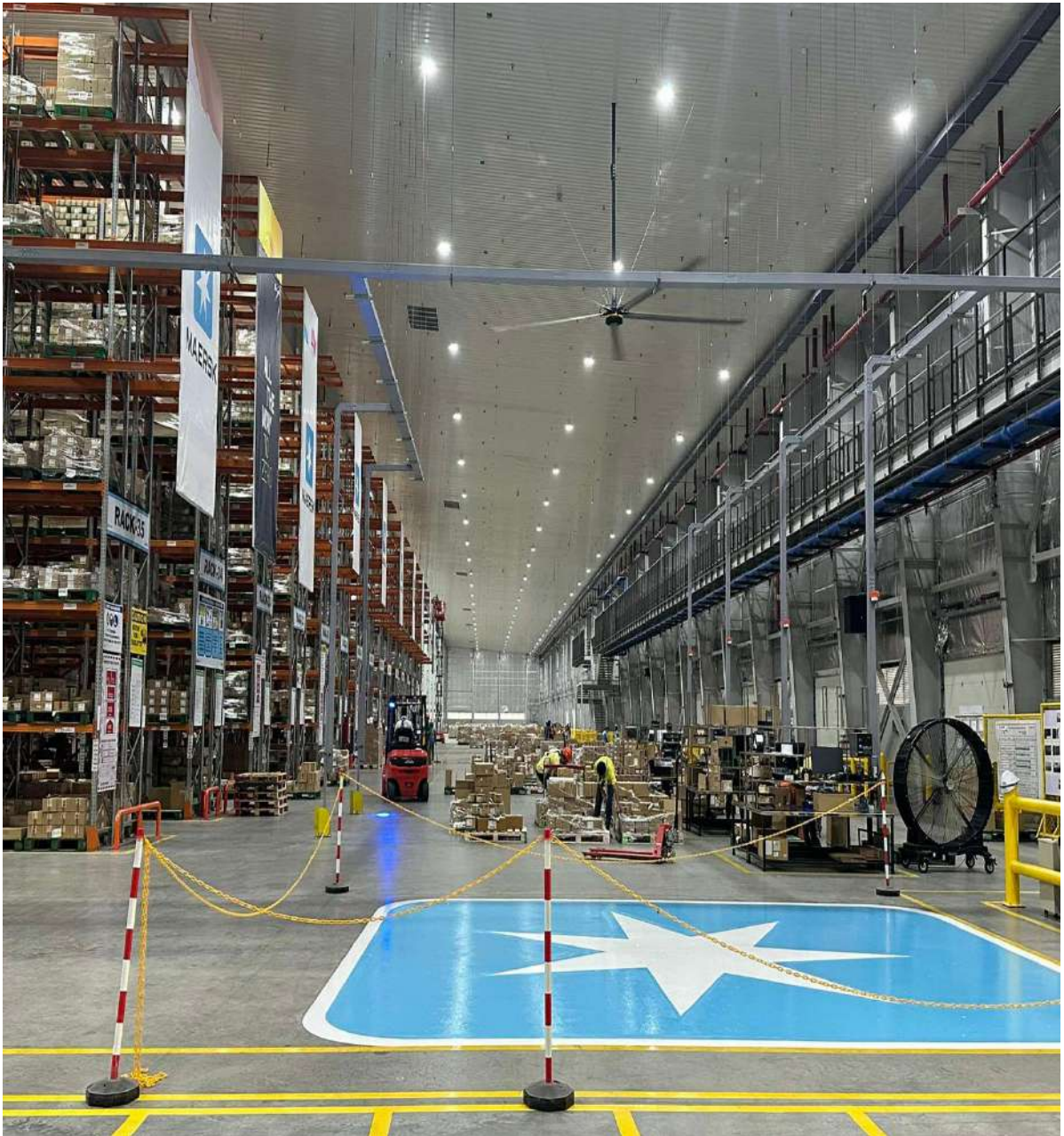
PANGASINAN SOLAR POWER PLANT – PANGASINAN



AUREO HOTEL & RESORT – LA UNION



PRIMEX TOWER – SAN JUAN CITY



MAERSK – LAGUNA



PHILIPPINE INTEGRATED FIRE PROTECTION ORGANIZATION

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Email: pifpo.inc@gmail.com

SEC Registration No.: 201735312: TIN: 009-859-559

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VP - Technical Affairs


Armando Emata
Secretary


Paul Ryan Roque
President

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PSME NCR METROSOUTH CHAPTER

Present this

CERTIFICATE OF APPRECIATION

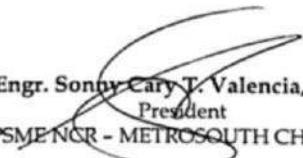
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Given this 28th day of February 2020 Max's Restaurant 4th Level, Star Mall, Alabang Muntinlupa City

Engr. Luis V. Dela Cruz, ME
Secretary
PSME NCR - METROSOUTH CHAPTER


Engr. Mario Anthony C. Glorioso, PME
Executive Vice President
PSME NCR - METROSOUTH CHAPTER


Engr. Sonny Cary T. Valencia, PME
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