SMGI [Social Manufacturing Group Ind.]
Address: 46, Sasang-ro 375beon-gil, Sasang-gu, Busan, Republic of Korea

Tel:+82-070-8802-1785

Fax: +82-51-583-1785

Email: sales@smgi-cylinder.com(Domestic Sales) export@smgi-cylinder.com(Overseas Sales)

mh.lee@smgi-cylinder.com(For inquiries / Business Proposal / Distribution & Sales Agent Inquiries)

Website: www.smgi-cylinder.com



SAMPLING CYLINDERS

TPED / KGS / GENERAL APPLICATION

CONDENSATE POT

END CAP ▶ OURS NO WELDING ONE-STEP SPINNING FORMING

SEAMLESS STAINLESS PIPE / ORDERING INFORMATION





Application

Hydrocarbon sampling in refineries

Sampling gas in chromatography

Condensate sampling in fossil fuel and nuclear power plants

Surge accumulators or reaction vessels

Features

Maximum working pressure is 5000 psig (344 bar).

Volume varies from 200 to 3785 cm3 (1 gal) sizes.

1/8, 1/4, and 1/2 NPT female connections are available.

Seamless tubing body provides consistent wall thickness, size and capacity.

Cylinder inlet end is 1/8, 1/4 and 1/2 female NPT connections.

Heavy wall end connections provide strength and are flaring-resistent.

304L and 316L stainless steel materials resist and capable of passing intergranular corrosion test.

Approval of TPED (Transportable Pressure Equipment Directive) is available

Pressure Ratings

The pressure ratings for SMGI sampling cylinders shown in this brochure are in accordance with the EC-type examination

for the products.

Testing

TPED: TPED-compliant cylinders are hydrostatically tested at 1.3 times the pressure rating.

KGS: AC212-compliant cylinders are hydrostatically tested at 1.67 times the pressure rating.

General Type: SMGI sampling cylinders are hydrostatically tested at 1.3 times the pressure rating.

Working Temperature Range:

Cleaning and Packaging

All SMGI sampling cylinders are cleaned and packaged in accordance with standard cleaning procedures. If special requirement

for your project is required, additional treatment can be reflected as per agreement before ordering.

Numbering

Ordering numbers of SMGI TPED-Compliant sampling cylinders include a -PD designator.

Product Number

SMGI TPED-compliant sample cylinders are marked with the pi (n) symbol and the identification number of

the Notified Body which performed the assessment.

Heat treatment

* QT Processing(Quenching)

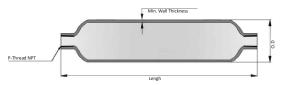
Heat the carbon steel above the metamorphosis point that turns into an austenite structure.

The work of rapidly cooling with water or oil cooling treatment, transforming into martensite tissue and curing it.

* Solid Solution Heat Treatment

Operation to obtain solid solution tissue at room temperature by heating the alloy component of steel above the temperature at which the solid solution is dissolved, maintaining it for a sufficient time, and then quenching it to inhibit the deposition of the alloy component.





TPED Sampling Cylinders Technical Data

Dimensions, in millimeters (inches), are for reference only and are subject to change.

Туре	Rating Volume		Cylinder			Dimensions, mm (in.)			Ordering Number		
			Volume (cm±10%)	NPT (Inch)	O.D ± 1%	Length ±1.0	Min. Wall Thickness	kg(lb)			
	Double-ended										
			300	300	50.8	227(8.94)	32.5(0.098)	0.8 (1.87)	6L - SC124 - N1/4 - 300		
TPED	316L SS	124bar	500	30.8	351(13.8)	32.3(0.030)	1.3 (3.03)	6L - SC124 - N1/4 - 500			
	TPED 316L 55	(1800psi)		1/4	87.3(3.44)	277(10.9)	4.4 (0.173)	2.5 (5.5)	6L - SC124 - N1/4 - 1000		
			1000	1/2	87.3(3.44)	277(10.9)	4.4 (0.173)	2.5 (5.5)	6L - SC124 - N1/2 - 1000		

Transportable Pressure Equipment Directive (TPED)

The Transportable Pressure Equipment Directive (TPED) provides requirements relating to the design, manufacture, and testing of transportable pressure vessels and accessories, including sample cylinders and cylinder valves, used in gas service. The intent of the directive is to provide a uniform level of product safety throughout the countries of the European United.

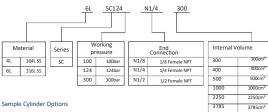
KGS Sampling Cylinders Technical Data

Туре	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		P - Female	Di	Dimensions, mm (in.)			Ordering Number	
		Rating bar (psig)	Volume (cm [±] ±10%)	NPT (Inch)	0.D ± 1.0	Length ±1.0	Min. Wall Thickness	kg(lb)	
	Double-ended								
		124bar (1800psi)	300 1/4 50.8		227(8.94)	3.0(0.118)	0.8 (1.87)	6L - SC124 - N1/4 - 300	
	22 1006		500	1/4	30.5	351(13.8)	3.0(0.116)	1.3 (3.03)	6L - SC124 - N1/4 - 500
KGS	304.33		1000	1/4	87.3(3.44)	277(10.9)	4.4 (0.173)	2.5 (5.5)	6L - SC124 - N1/4 - 1000
(Korea Gas				1/2	87.3(3.44)	277(10.9)	4.4 (0.173)	2.5 (5.5)	6L - SC124 - N1/2 - 1000
Safety)			300	1/4	50.8	227(8.94)	3.0(0.118)	0.8 (1.87)	6L - SC124 - N1/4 - 300
	316L SS		500			351(13.8)	,	1.3(3,03)	6L - SC124 - N1/4 - 500
			1000	1/4	87.3(3.44)	277(10.9)	4.4 (0.173)	2.5(5.5)	6L - SC124 - N1/4 - 1000
				1/2	87.3(3.44)	277(10.0)	4.4 (0.173)	2.5 (5.5)	6L - SC124 - N1/2 -1000

General Type Sampling Cylinders Technical Data

Type			P - Female NPT (Inch)	Di	mensions, mm (i	n.)	Weight kg(lb)	Ordering Number	
,,,		bar (psig)	(cm,±10%)		0.D ± 1.0	Length ±1.0	Min. Wall Thickness		
					Double-	ended			
			200			179 (7.05)		0.6 (1.34)	6(4)L - SC124 - N1/4 - 200
			250			203 (7.99)		0.7 (1.61)	6(4)L - SC124 - N1/4 - 250
			290			226 (8.90)		0.8 (1.87)	6(4)L - SC124 - N1/4 - 290
			300	1/4	50.8 (2.0)	227(8.94)	2.5 (0.098)	0.8(1.87)	6(4)L - SC124 - N1/4 - 300
			400			290 (11.4)		1.0 (2.54)	6(4)L - SC124 - N1/4 - 400
			500			351 (13.8)		1.3 (3.03)	6(4)L - SC124 - N1/4 - 500
				1/4	87.3 (3.44)	277 (10.9)	4.4 (0.173)	2.5 (5.5)	6(4)L - SC124 - N1/4 - 1000
General	304L/316L SS	124bar SS (1800psi)	1000	1/2	87.3 (3.44)	277 (10.9)	4.4 (0.173)	2.5 (5.5)	6(4)L - SC124 - N1/2 - 1000
Application			2250	1/4	100.6 (3.96)	437 (17.2)	5.0 (0.197)	6.4 (14.1)	6(4)L - SC124 - N1/4 - 2250
			1130	1/2	100.6 (3.96)	437 (17.2)	5.0 (0.197)	6.4 (14.1)	6(4)L - SC124 - N1/2 - 2250
			3785	1/4	100.6 (3.96)	678 (26.7)	5.0 (0.197)	9.5 (20.9)	6(4)L - SC124 - N1/4 - 3785
			3,43	1/2	100.6 (3.96)	678 (26.7)	5.0 (0.197)	9.5 (20.9)	6(4)L - SC124 - N1/2 - 3785
		300bar	300			368 (14.5)		2.5 (5.5)	6L - SC300 - N1/4 - 300
	316L SS	(4350psi)	500	1/4	47.3 (1.86)	597 (23.5)	6.0 (0.236)	4.1 (9.04)	6L - SC300 - N1/4 - 500

Ordering Information



PTFE Coating

Internal surface of the cylinder can be coated with PTFE to provide a nonstick surface, which aids in cleaning.

Electropolishing

Electropolishing provides a clean internal surface with a high degree of passivation.

Carrying Handle

This carrying handle provides convenience to carry sample cylinders. The handle is made from 304 stainless steel.







Material: 304 SS

Material: 304 SS (50.8~101.6)

Available tests as per requirements

Hardness Test	, Hydraulic Burst Test
Tensile Test	Pressure cycling Test
Bend Test	Tightness Test
Flattening Test	Internal surface inspection
Intergranular corrosion test	Visual & Dimensional Check
Hydraulic Test	1

CONDENSATE POT

Building a Part Number: Example: 6SCP3-S1608N8N-4A8N8N (6S/CP/3-/S160/8N8N-/4A/8N8N)

	65	CP	3	S160	SNSN	-	4A	SNSN	
١	44		· +	++			++		Ĺ
	1	Condensate pot	2	35			46		

1. MATE	RIAL		2. PIPE DESIGNATOR	3. CLASS DESIGNATOR OF PIPE			
MATERIAL	DESIGNATOR	PIPE SIZE		DESIGNATOR	PIPE SIZE	DESIGNATOR	
A312 TP316L	65		NPS 2(O.D.60.3)	2	SCH .40	S40	
A312 TP304L	45	ANSI	NPS 3(O.D.88.9)	3	SCH .80	S80	
A106 GR.B	СВ		NPS 4(O.D.114.3)	4	SCH .160	S160	
A335 P11	P11						
A335 P22	P22						
A335 P91	P91						
A182 F91	F91						

4. SHAPES DESIGNATOR

SHAPES	DESIGNATOR	SHAPES	DESIGNATOR	SHAPES	DESIGNATOR	SHAPES	DESIGNATOR
	2A		3A		4A		
	28		3B		48		
	2C	-	3C		4C		

^{*} IF YOU NEED OTHER SHAPES EXCEPT SPECIFIED SHAPES ABOVE, PLEASE DO NOT HESITATE TO CONTACT.

5. END CONNECTION DESIGNATOR IN, OUT/END CONNECTIONS(1 AND 2)

end connectors are described by first the run (1 and 2)	SIZE	DESIGNATOR	end connectors (1 and 2)
NO. COLUMN OF THE PARTY OF THE	IN,OUT/END CONNEC	TIONS(1 AND 2)	
	1/2" NPT FEMALE	8N	
350	1/4" NPT FEMALE	4N	
SCOONS 1869	1/2" SW SOCKET WELD	SW	
Fitting class on end connection is selected as per the pipe schedule rating.			Ø88.9± 2.5
as par one proportional results.			1 8.0

- Ifall end connections are the same, size should be written only once.
- Class of end connection is sellected by the pipe schedule.
- Socket weld connection as per ANSI B16.11
- Butt welding ends as per ANSI B16.9
- NPT as per ANSI B1.20.1 taper pipe threads

6. END CONNECTION DESIGNATOR, BOSS / END CONNECTIONS(3 AND 4)

end connectors are described by first the branch (3 and 4).	POT END CONNECTIONS	SIZE	DESIGNATOR
	#32.0 1/2" NPT	BOSS / END CONNECTIO	ONS(3 AND 4)
		1/2" NPT FEMALE	8
		1/4" NPT FEMALE	4N
		VERY PLUG	VP
SINCOPPAGE AF	ø16.0 <u>1.6</u>	HEX.HEAD PLUG	P
fitting class on end connection is selected as per the pipe schedule rating.	@HALF COUPLING DETAIL		

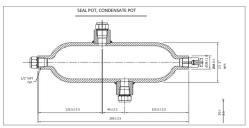


FEATURES

All condensate pot are designed in accordance with ASME SEC. VIII Div. 1 and produced in an ASME coded workshop.

- Seamless pipe construction.
- Working pressure: up to Class 250 BAR
- Variety of end connections available.
- Extra connections can be furnished upon custmer reguest.
- All threads will be protected with plugs or plastic caps as required by the CUSTOMER
- All chamber are factory tested fully prior to shipment.
- Condensate pot specification

pressure ratings : up to 11 000 psig(760bar),medium-pressue-up to 20 000 psig(1378 bar)high-pressure- up to 60 000 psig(4134 bar) temperrature ratings : up to $1000^{\circ}F(537^{\circ}C)$



TECHNICAL DATA

All the welding point shall be non-destructive inspection.

* PT : Liquid Penetrant Testing

* MT : Magnetic Particle Testing

MATER	RIAL OF CONNECTION		DIMENSIONS		(UNIT: MM	
NO.	DESCRIPTION	MATERIAL	PIPE SIZE(D)	L	L1(1)	
1	PIPE 3" SCH 40	STAINLESS STEEL 316L	NPS 3(O.D.88.9) SCH 80	274	120.8	
2	BOSS 1/2"(F)NPT #3000	STAINLESS STEEL 316L	NPS 3(O.D.88.9) SCH 80	288	127.8	
3	PLUG	STAINLESS STEEL 316L (1/2" NPT 316L)	NPS 3(O.D.88.9) SCH 160	274	120.8	
4	CONNECTOR	STAINLESS STEEL 316L (1/2" NPT 316L)	NPS 3(O.D.88.9) SCH 160	280	127.8	
5	300# RF	STAINLESS STEEL 316L	NPS 3(O.D.114.3) SCH 80	350	130	
6	NIPPLE	1/2" SCH 40	NPS 3(O.D.114.3) SCH 120	355		

AIR DISTRIBUTION MANIFOLD(AIR HEADER) TYPE(SEAMLESS STAINLESS PIPE)/ ORDERING INFORMATION AIR DISTRIBUTION MANIFOLD(AIR HEADER) / END CAP ▶ OURS NO WELDING ONE-STEP SPINNING FORMING

1. Working Pressure: SMGI AP series 6.8 Mpa(68BAR)~50 Mpa(500BAR); SMGI-AP series 1000psi and 7250psi 2.Design Pressure: SMGI AP series 6.8 Mpa(100BAR)~70 Mpa(700BAR): SMGI-AP series 1000psi and



smai 's air distribution manifolds are specially designed for gas and liquid distribution applications where multiple take-offs are required. Manufactured from a range of materials to suit the application process, they are capable of accommodating a variety of isolation valves, including needle and ball valves

Distribution manifolds can be wall or pipe mounted and can be supplied complete with fixing brackets to suit the preferred mounting method. Manifold designs are available to operate up to 10.000 psi

Application

To carry and distribute gases and liquid processes from a wall or pipe mounting.

Description

The body is manufactured from solid or extruded section in stainless steel and carbon steel and is suitable for a variety of outlet take-off valves

Valves are fitted on each outlet with a drain valve as standard. The numbers of outlets can vary to meet requirements.

A variety of valve configurations are available - please specify when ordering.

Brackets are supplied suitable for wall mounting or for adaptation for pipe mounting.

Maximum pressure rating: 10,000 psi

Product Renefits

- · Reduction in assembly time
- 316L nominal bore body as standard removes the possibility of internal scaling
- · Greater volume capacity supporting fluctuations in air compressor supply · Guaranteed full penetration welds - Coded welding and non destructive testing (NDT) as standard

Product Features

- · Available with four support feet drilled for mounting for ease of installation
- · Nominal bore body manufactured from a wide thick gauge 316 Stainless Steel
- · Coded welding and non-destructive testing (NDT) as standard
- · Greater volume capacity

Air header(air distributor manifold) with 6 & 8 distribution valve outlets



Air header distribution manifold with 6 distribution valve outlets and flanged inlet, both sides Configuration.



Air header(air distributor manifold) with 8 distribution valve outlets.

How to Order

The correct part number is easily derived from the following number sequence

- To order Air Header, prefix "A" and build up an ordering number by combining the designators in the sequence below.
- · Pipe Dimensions / Material 1 in. or 2 in. Pipe SEAMLESS Stainless Steel
- · Process Connections : Flange Threaded, Ball or Needle Valve
- Outlet Ports: Single and Double-Side Numbers of ports: 2 thru. 20 Drain Connections: Threaded, Ball or Needle Valve

24 1 1/2

	flanged inlet style											
A	2	S(SCH 80)	12		8		F	150	8	l		К
series		material	number of distribution valve outlets	l'in	t size nch)	inlet o	onnection	flange class	drain val size(valve outlet connection
	seamless stainless steel	insert	8	1/2	F	raised face	150	8	1/2	N	female NPT	
high pressure distribution	18	1 1/2 INCH SOH 160	number from 4-20	12	3/4	Т	ring type	250	12	3/4	K	BSPT
manifold	25	2 INCH SCH 80	1101114-20	16	1			600	16	- 1	R	BSPP
				24	1 1/2				24	1 1/2		
				32	2				32	2		

SPECIFICATIONS

SPECIFICATIONS					
central pipe body material	seamless stainless steel 316				
ball material	seamless stainless steel 316				
steam material	seamless stainless steel 316				
seat material	PTFE				
Maximum working pressure	6000 PSI(414BAR)				
temperature rating	(-53 °C to 232 °C)				

Markets

Oil and gas
 Petrochemical

1 1/2

24

- Chemical
- Industrial chemical processing
 & power generation

Markets

· Liquid and gas distribution

Standard Connection Ends

8	3		N		BVO		
distributi outlet siz		distribution valve outlet connection		drain options		valve configuration	
4	1/4	N	female NPT	BVO ball valve outlet			both sides
6	3/8	К	BSPT	BPBVO	ball valve plugged outlet	R	right side
8	1/2	R	BSPP	BP plugged drain outlet		L	left side
				CD	plugged distribution		

Standard Connection Ends

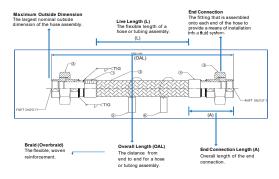
8		N		BVO				
distributi outlet siz			distribution valve outlet connection		drain options		configuration	
8	1/2	N	female NPT	BVO ball valve outlet			both sides	
		К	BSPT	BPBVO	ball valve plugged outlet	R	right side	
		R	BSPP	BP	plugged drain outlet	L	left side	
				CP	plugged distribution			

Hose Assemblies, Bulk Hose, Flexible Tubing, and End Connections

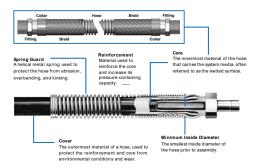
- Core materials include metal, PTFE, PFA, vinyl, nylon, polyethylene, and rubber
- Nominal hose sizes 1/8 to 2 in.
- Wide range of fractional and metric end connections
- Custom lengths available
- Optional covers, tagging, and testing







No.	Description	Q'ty	Material	Specification	Assembly Weight
1	BELLOWS	1EA	ASTM A240 TYPE316L	0.25t	
2	BRAID	1EA	ASTM A478-304	0.35T	
3	UNION 3000# 1" SW	2EA	ASTM A276-316L	FEMALE(METAL TO METAL)	
4	BEND	2EA	ASTM A312 TP316L	-	-
5	NAME PLATE	1EA	ASTM A240 TYPE316	100 × 35 × 1.0t	
6	TAG PLATE	1EA	ASTM A240 TYPE316	50 × 15 × 0.8t	
				TOTAL	4kg / 1set



Considerations for Selecting a Hose Assembly 6lution

Temperature

Identify the minimum and maximum temperatures the hose assembly will be exposed to with regard to the system media and the environment.

Pressure

Identify the minimum and maximum pressures (or vacuum) within and outside the hose assembly.

Material

Identify the system media and the environment to which the hose assembly will be exposed. This will help determine the materials of construction best suited to the application demands and whether the hose requires a static dissipative core.

Movement

Confirm whether the hose assembly will be installed in dynamic applications as this will require different considerations than a static application.

Lenath

Determine the most likely route for installation of the hose, and use this to identify length requirements.

Orientation

Clarify space constraint concerns. Hose assemblies with elbows and union ball joints may help resolve space constraint issues.

Desired Flow

Consider desired flow. Hose connection size, core tube construction, and routed installation may impact flow.

Drainability

Consider core construction as this will impact drainability.
Test ReportsIdentify the need for documentation in the form of testreports.

Special Marking

Discuss special marking requirements; there are different options available to readily identify hose assemblies.

Documentation and Regulatory Requirements Identify the need for special regulatory approvals or documentation.

Additional Protection and Covers

Identify whether covers are necessary for additional protection of the hose assemblies or surrounding systems.



TECHNICAL DATA

NOMINAL HOSE SIZE IN.	inside DIAMETE R IN.(MM)	outside DIAMETE R IN.(MM)	MINIMUM CENTER LINE BEND RADIUS IN.(CM)		TEMPERATU RE RANGE	WORKING PRESSURE AT - 325 TO 300 °F (- 200 TO	MINIMUM BURST PRESSURE AT 70	BULK HOSE WEIGHT
(MM)			STATIC	DYNAMIC		148 °C) VACUUM TO PSIG (BAR)	°F(20°C) VACUUM TO PSIG (BAR)	LB/FT (KG/M)
1/4(6.4)	0.25(6.4)	0.68(17.3)	1.5(3.81)	5.5(14.0)		6000(413)	24000(1653)	0.49(0.73)
3/8(9.7)	0.38(9.5)	0.92(23.4)	2.5(6.40)	7.0(17.8)		5000(344)	20000(1378)	0.77(1.15)
1/2(12.7)	0.51(13.0)	0.98(24.9)	3.0(7.62)	8.0(20.3)	- 325 TO 1000	4500(310)	18000(1240)	0.85(1.26)
3/4(19.0)	0.75(19.0)	1.40(35.6)	4.0(10.62)	10.0(25.4)	(-200 TO 537)	3600(248)	14400(992)	1.58(2.35)
1(25.4)	1.00(25.4)	1.70(43.2)	5.0(12.7)	11.0(27.9)	(*200 10 007)	3000(206)	12000(826)	2.32(3.45)
1 1/4(31.8)	1.25(31.8)	2.00(50.8)	6.5(16.5)	12.5(31.8)		2600(179)	10400(716)	2.88(4.29)
PRESSIORE/TE	mperature i	RA ZINGSID SM AY	BE7L5M9TED	SY 10HE(38)400 (ONNECTIONS.	2200(151)	8800(606)	3.57(5.31)
2(50.8)	2.00(50.8)	2.82(71.6)	9.0(22.9)	14.0(35.6)		1675(115)	6700(461)	4.45(6.62)

Pressure-Temperature Ratings

RATINGS ARE BASED ON ASME CODE FOR PRESSURE PIPING B31.3, PROCESS PIPING.

NOMINAL HOSE SIZE IN.(MM)	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
TEMPERATURE "F("C)	WORKING PRESSURE VACUUM TO PSIG (BAR)							
325(-200) TO 300(148) 400(204)	6000(413) 5640(388)	5000(344) 4700(323)	4500(310)	3600(248)	3000(206)	2600(179)	2200(151)	1675(115)
500(260)	,		4230(291)	3384(233)	2820(194)	2444(168)	2068(142)	1574(108)
600(315)	5317(366) 5029(346)	4431(305) 4191(346)	3988(274)	3190(219)	2658(183)	2304(158)	1949(134)	1484(102)
700(371)	4850(334)	4041(334)	3772(259) 3637(250)	3017(207) 2910(200)	2514(173) 2425(167)	2179(150) 2101(144)	1844(127) 1778(122)	1404(96.7) 1354(93.2)
800(426)	4634(319)	3862(266)	3476(239)	2780(191)	2317(159)	2008(138)	1699(117)	1293(89.0)
850(454)	4562(314)	3802(261)	3422(235)	2737(188)	2281(157)	1977(136)	1673(115)	1273(87.7)
900(482)	4455(306)	3712(255)	3341(230)	2673(184)	2227(153)	1930(132)	1633(112)	1243(85.6)
950(510) 1000(537)	4347(299) 4239(292)	3622(249) 3532(243)	3260(224) 3179(219)	2608(179) 2543(175)	2173(149) 2119(145)	1883(129) 1837(126)	1594(109) 1554(107)	1213(83.5) 1183(81.5)

SMGI METAL HOSE

TESTING

EMERY SMGI HOSE
ASSEMBLY IS INBOARD HELIUM LEAK TESTED
TO A MAXIMUM LEAK RATE OF 1 X 10_5
STD CM3/S.

FOR ADDITIONAL TESTING, SEE TESTING.

CLEANING AND PACKAGING

SMGI HOSE COMPONENTS
ARE CLEANED IN ACCORDANCE WITH
SMGI STANDARD CLEANING AND
PACKAGING
EACH HOSE IS BAGGED INDIVIDUALLY
AND BOXED, LONGER HOSES ARE COILED,
BAGGED, AND BOXED.

SMGI

ORDERING INFORMATION

CUSTOM HOSE ASSEMBLIES

BUILD A HOSE ASSEMBLY ORDERING NUMBER BY COMBINING BY COMBINING THE DESIGNATORS IN THE SEQUENCE SHOWN BELOW.

TYPICAL ORDERING NUMBER

1		2	3	4	4		5		6		5	6
SS	-	FX	4	T A 4	P M 4	-	28	- in	F	or	71CM -	F

TYPICAL ORDERING NUMBER



- 1 MATERIAL END CONNECTIONS SS-316 STAINLESS STEEL
- 2 HOSE FX=FX SERIES HIGH-PRESSURE METAL HOSE
- 3 NOMINAL HOSE SIZE,IN. 4 = 1/4 6 = 1 6 = 3/8 20 = 1 1/4 8 = 1/2 24 = 1 1/2 12 = 3/4 32 = 2
- 4 END CONNECTIONS SEE END CONNECTION DESIGNATOR COLUMN IN TARLES ON NEXT PAGE.
- 5 OVERALL LENGTH INCHES IN TENTHS OR CENTIMETERS, IN WHOLE NUMBERS INCLUDE CM AS SHOWN FOR CENTIMETER LENGTHS.
- 6 OPTIONS FOR MULTIPLE OPTIONS ADD DESIGNATORS
 - WITH A DASH BETWEEN EACH DESIGNATOR.

CRN=LANYARD TAG WITH CRN A=ARMOR GUARD

F=FIRE JACKET

G=CGA 4.1 CLEANING ON HOSE WETTED SURFACES F1=THERMOSLEEVE

H7=HELIUM LEAK TEST (1 X10_7STD CM3/S)
N3=NITROGN PRESSURE TEST

Z=316L SS BRAID MATERIAL

MAT TAGS

 M.A. = GRAY
 M.G. = GREEN
 M.O. = GRANGE
 M.W. = WHITE

 M.B. = BLUE
 M.K. = BLACK
 M.P. = RUFRLE
 M.Y. = YELLOW

M.C = BROWN M.N = PINK M.R = RED ADD 2 TO THE END OF THE MAT TAG DESIGNATOR FOR TWO TAGS.

EXAMPLE: MA2

TPED Certificats - EN 1964-3 (2000)











 Mendichen:
 Stot:
 SMECU, Ltd.

 Address:
 1981, Hexpersenable Jvs., Geogne-gs, Roses, Egyddic of Euros

 Project
 See:
 Cin Cylinder

 Type:
 Selection seet, Seembers

 Imagenism Selection
 1901, 1944-1959.

 Imagenism Selection
 1901, 1944-1959.

 Lincoln FFED - 6890-2002.
 SEGE FFED - 6880-2002.

Azol kz













Certificate of Approval for Transportable Gas Cylinders - EN 1964-3 (2000) FTA (certificate of conformity)





Corollogo: No.J. TPED-MF-0800-22 crosed Date: 14 December 2922 Page 1.7.2 Type Approved Corollogo: No. 1 TPED-MB-1864-15 (Sov. 2)

CR-16071, Atlant, Gree TSE: +30-210-428-6736 FAX: +30-210-428-6728 Mp. Ferrer Info@accom



Corollege No.: TPED-MF-0002-32 lessed flore: (4 December 2002 Page 1 / 2 Type Approval Corollege No.: TPED-MB-0001-07-06-2

Certificate of Conformity

This is to CPE(f) that appropriate contributions and least have been control and, in the presence of Loil, designated by the Hellinois Expelsion in Notified Body successing to Stopolish (2019/SSE) on Their Pressure Equipment to confirm that the equipment identified below may found to be in compliance requirements of Transportable Pressure Equipment (TPED) 2010/SSE) and AFR 2010.

This certificate is inseed at Arbem, under the authority of the Shiftanic Republic by KR Shiftan LAE, Notifi Body No. 2748.

Importer infrared through 150 (2014). To Colonial Manager 1 Sumper So. (Oct.) Life (professor American order consciousing processors too certificate results.

regions no partir de companyament des la france a la bración procesor cións agres (15% as jubite array se firma a muses dels se la costant a cost comment a la mora Carlagora. La de regiones comment la compart de 15% es collidades a mante de la claract, del mora con des producios de la del proceso. La desposa a 15% pel may la 15 Orda la se and el describations de la confessiona (dels sections), en en otro comp en la del 15 Orda (del 15%).



Applied Standardký I EX PSes 2-3000
Production Importion and Test (EXRS EVEX 0001-002)
Royan Chandles
This conflictor is small of Affans, under the authority of the Hellenia Republic by XX Mellar Exp No. 100.

ACC INFO ON THE PROPERTY OF TH

I, Stitus Ac, Vollagueni, Bright's, Athens, George EL: +10-210-428-4756 AN: +10-210-428-4756 springers intelligence

Island Date: 1 October 1200 Page 17 Type Approval Carifford No. 27 Type Approval Carifford No. 27 Certificate of Conformity

The Go Well Conference of the Conference of the

Applied Standardie) : EN PAGE-30000 Production Enganties and Test : NEES EPPE-8006-8923 Report Number

Inquient letters theme (IDE Enters)

Takened Manager Transport Symposis Street

CROSS 1. So Takened Manager Transport Symposis Street

CROSS 1. So Takened Manager Transport Symposis Street

Takened

A point formed of the common facilities and the second advantage in the common facilities and the common common and the common facilities and the co

Certificate of Approval for Transportable Gas Cylinders DOT 3A Certificate. DOT 3E Certificate







Algorithm has part or the control principal which has become a different has an expect a distinguish (ASS), and AAA, atting and different principal has been a different principal has been a for a control principal has been a principal has been a different principal has been a di