



400 Series TPED Cylinder Valves

Applications

High Flow cylinder valves for bulk gas cylinder storage stacks.

Suitable for Hydrogen. Check with Oasis for compatibility with other gases.



TH404 (SAE and Medium Pressure)

Materials

Item	Part	Material
1	Body & Cap	Stainless Steel
2	Ball	Stainless Steel
3	Stem	Stainless Steel
4	Seats	PEEK
5	Thrust washer	POM

Item	Part	Material
6	Gland	POM
7	O-rings	FKM
8	Backup rings	NBR
9	Handle	Stainless Steel
10	Adaptor	Stainless Steel

Product Information

Type Tested to ISO23826.

Complies with TPED 2010/35/EU.

All products are manufactured to ISO 9001 standards.

385 or 520 bar working pressure options available.

UNF18 (1 1/8-12 UNF) or 1 1/2-12 male cylinder thread.

MP threads to Maximator Document 3999.1831.

SAE threads conform to SAE J1926-1.

Features & Benefits

All materials are suitable for use in Hydrogen applications.

Easy to service, kits readily available.

Quarter turn handle - easy to tell when the valve is in open or closed position.

Anti blow-out stem design.

Includes a 3/8" cone and thread live PRD port.

Manufactured from certified bar stock.

Lockout system available to prevent accidental operation of valve.

3/8" SAE O-Ring (9/16-18 UNF) commissioning port.

The commissioning port allows the cylinder to be isolated for testing.

Fully indexable adjustment, eliminating the need to "clock" cylinders.

TPRD available for supply with valve. Refer to Oasis for options.



400 Series TPED Cylinder Valves

Medium Pressure (Cone and Thread) Product Specification

Part Code	Mass lb (kg)	Minimum Operating Pressure bar (psi) *	Working Pressure (WP) bar (psi) **	MAWP (PS) bar (psi) ***	Min. Temp. °F (°C)	Max. Temp. °F (°C)	Time Before Rekit [^]	Stem Open Torque ft-lb (Nm) ^{^^}	Cv	Service Kit
TH404-66BA8R0-G000	6.6 (3.0)	6.9 (100)	520 (7539)	650 (9424)	-40 (-40)	185 (85)	5 Years	14.7 (20)	1.2	TH404-SK1

* Lowest settled gas pressure for which the ball valve is designed. This is the minimum pressure that the product will hold constant bubble tight seal.

** Settled pressure of a compressed gas at a uniform reference temperature of 15°C in a full pressure receptacle for which the valve is intended.

*** Minimum pressure applied to the valve during testing.

[^] The service life stated depend on the system conditions and may not be achievable in all situations.

Contact Oasis for further information.

^{^^} Maximum opening torque at maximum operating pressure.

SAE Product Specification

Part Code	Mass lb (kg)	Minimum Operating Pressure bar (psi) *	Working Pressure (WP) bar (psi) **	MAWP (PS) bar (psi) ***	Min. Temp. °F (°C)	Max. Temp. °F (°C)	Time Before Rekit [^]	Stem Open Torque ft-lb (Nm) ^{^^}	Cv	Service Kit
TH404-62BA8R0-G000	6.6 (3.0)	6.9 (100)	520 (7539)	610 (8845)	-40 (-40)	185 (85)	5 Years	14.7 (20)	4.9	TH404-SK2
TH404-62B98R0-G000			385 (5583)	462 (6699)						TH404-SK3

* Lowest settled gas pressure for which the ball valve is designed. This is the minimum pressure that the product will hold constant bubble tight seal.

** Settled pressure of a compressed gas at a uniform reference temperature of 15°C in a full pressure receptacle for which the valve is intended.

*** Minimum pressure applied to the valve during testing.

[^] The service life stated depend on the system conditions and may not be achievable in all situations.

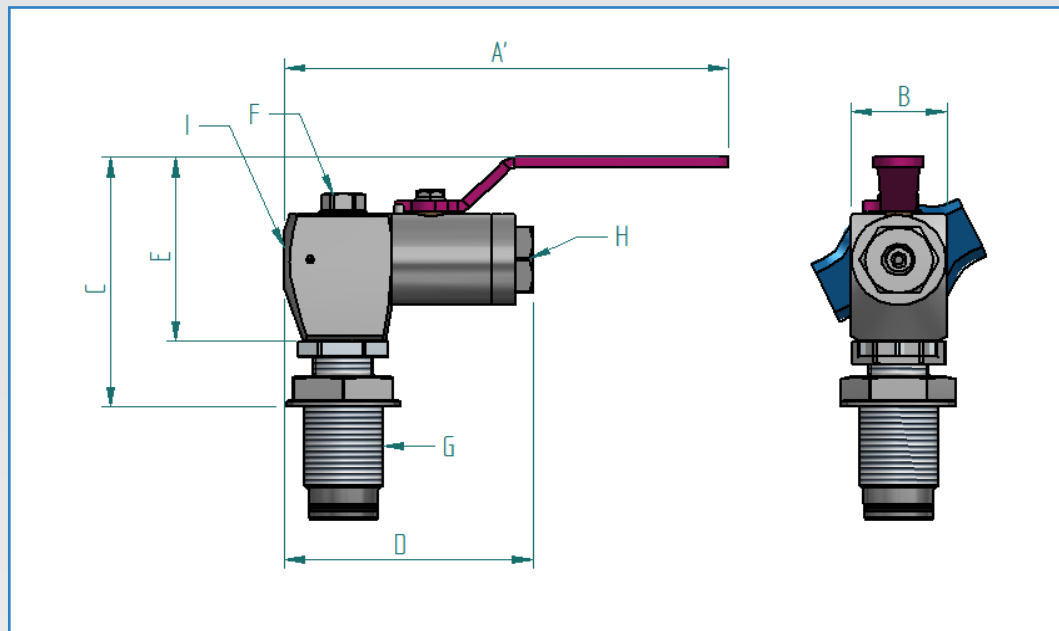
Contact Oasis for further information.

^{^^} Maximum opening torque at maximum operating pressure.



400 Series TPED Cylinder Valves

Dimensions - Inch (mm)



Part Code	A'	B	C	D	E
TH404-66BA8R0-G000					
TH404-62BA8R0-G000	8.4" (214mm)	1.8" (46mm)	5.0" (126mm)	4.7" (120mm)	3.6" (92mm)
TH404-62B98R0-G000					

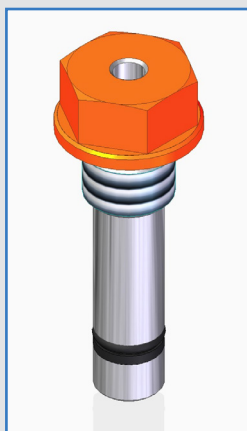
Connection Specifications

Part Code	F COMMISSIONING PORT (SUPPLIED WITH HD PLUG)	G MALE CYLINDER THREAD	H FEMALE END CAP THREAD	I (PRD/LIVE PORT) FEMALE THREAD
TH404-66BA8R0-G000	9/16"-18 UNF (3/8" SAE)	1 1/2" UNF male bore seal	9/16"-18 UNF (3/8" MP)	9/16"-18 UNF (3/8" MP)
TH404-62BA8R0-G000			1/2" SAE (3/4-16 UNF- 2B)	
TH404-62B98R0-G000		UNF18		



400 Series TPED Cylinder Valves

Accessories:



TH404-010 Commissioning Plug

Features & Benefits

Manufactured from certified bar stock.

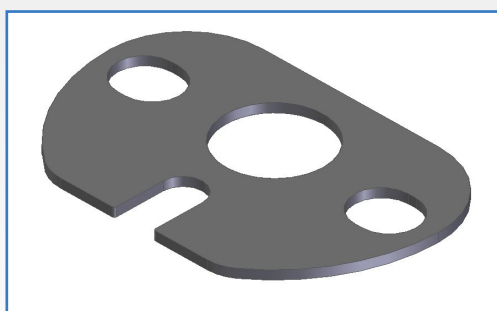
Allows the cylinder to be isolated for testing.

Can be powder coated to your custom safety colour.

Part Code	SAE Thread Size	Mass Oz (g)	Material	Hex size	Min. Operating Pressure bar (psi)*	Max. Operating Pressure bar (psi)**	Min. Temp. °F (°C)	Max Temp. °F (°C)	Service Kit
TH404-010	3/8"	2.2 (60)	Stainless Steel	19 mm	6.9 (100)	650 (9424)	-40 (-40)	185 (85)	TH404-010-SK1

* Minimum pressure that the product will hold constant bubble tight seal.

** Maximum pressure that the product will hold constant bubble tight seal.



TH404 Lockout Plate

Features & Benefits

Prevents accidental opening or closing of the valve.

Part Code	Material
XTH404-012	Stainless Steel



900 Series TPED Cylinder Valves

Applications

High Flow TPED cylinder valves for trailer use.

Suitable for Hydrogen, CNG, RNG, Biogas, Helium, Nitrogen and other gases on enquiry.



TH904-63B92T0-G000

Materials

Item	Part	Material
1	Body & Cap	Stainless Steel
2	Ball	Stainless Steel
3	Stem	Stainless Steel
4	Seats	PEEK
5	Thrust washer	POM

Item	Part	Material
6	Gland	POM
7	O-rings	FKM
8	Backup rings	NBR
9	Handle	Stainless Steel

Product Information

Type tested to ISO23826.

Complies with TPED 2010/35/EU.

CRN pending.

All products are manufactured to ISO 9001 standards.

NPT threads conform to ASME B1.20.1.

SAE threads conform to SAE J1926.

MP threads to Maximator Document 3999.1831.

25E (W28.8) threads conform to ISO11363-2.

UNF18 (1 1/8-12 UNF) threads conform to ASME B1.1.

Tube connections available.

Other connections available on request.

Custom handles available on request.

End users shall consider the pressure and flow of the system to which the valves are installed.

We reserve the right to modify product specifications without prior notice.

Features & Benefits

Suitable for 385 bar working pressure trailers.

Easy to service, kits readily available.

Quarter turn handle.

Anti blow-out stem.

Manufactured from certified bar stock.

Lockout system available to prevent accidental operation of valve.

Includes a live PRD port (9/16-18 SAE or 3/8 MP), PRD not included.



900 Series TPED Cylinder Valves

NPT Product Specification

Part Code	Size	Mass lb (kg)	Lowest Operating Pressure bar (psi) *	Working Pressure (WP) bar (psi) **	Max Allowable Working Pressure (PT) bar (psi) ***	Min. Temp. °F (°C)	Max Temp. °F (°C)^^^	Cycles Before Rekit^	Stem Open Torque ft-lb (Nm)^^	Cv	Service Kit
TH904-63B82T0-G000	1/2"	2.6 (1.2)	6.9 (100)	385 (5584)	462 (6700)	-40 (-40)	149 (65)	2000	14.7 (20)	6.7	TH904-SK1-S4
TH904-63B92T0-G000											TH904-SK2-S4

SAE Product Specification

Part Code	Size	Mass lb (kg)	Lowest Operating Pressure bar (psi) *	Working Pressure (WP) bar (psi) **	Max Allowable Working Pressure (PT) bar (psi) ***	Min. Temp. °F (°C)	Max Temp. °F (°C)^^^	Cycles Before Rekit^	Stem Open Torque ft-lb (Nm)^^	Cv	Service Kit
TH904-62B82T0-G000	1/2"	2.6 (1.2)	6.9 (100)	385 (5584)	462 (6700)	-40 (-40)	149 (65)	2000	14.7 (20)	6.7	TH904-SK1-S4
TH904-62B92T0-G000											TH904-SK2-S4
TH904-62B98T0-G000											

Tube Product Specification

Part Code	Size	Mass lb (kg)	Lowest Operating Pressure bar (psi) *	Working Pressure (WP) bar (psi) **	Max Allowable Working Pressure (PT) bar (psi) ***	Min. Temp. °F (°C)	Max Temp. °F (°C)^^^	Cycles Before Rekit^	Stem Open Torque ft-lb (Nm)^^	Cv	Service Kit
TH904-67B82T0-G000	12mm	2.6 (1.2)	6.9 (100)	385 (5584)	462 (6700)	-40 (-40)	149 (65)	2000	14.7 (20)	6.7	TH904-SK1-S4
TH904-67B92T0-G000											TH904-SK2-S4
TH904-68B82T0-G000	16mm										TH904-SK1-S4
TH904-68B92T0-G000											TH904-SK2-S4

* Lowest settled gas pressure for which the ball valve is designed. This is the minimum pressure that the product will hold constant bubble tight seal.

** Settled pressure of a compressed gas at a uniform reference temperature of 15°C in a full pressure receptacle for which the valve is intended.

*** Minimum pressure applied to the valve during testing

^ The temperature's and cycles stated depend on the system conditions and may not be achievable in all situations.
Contact Oasis for further information.

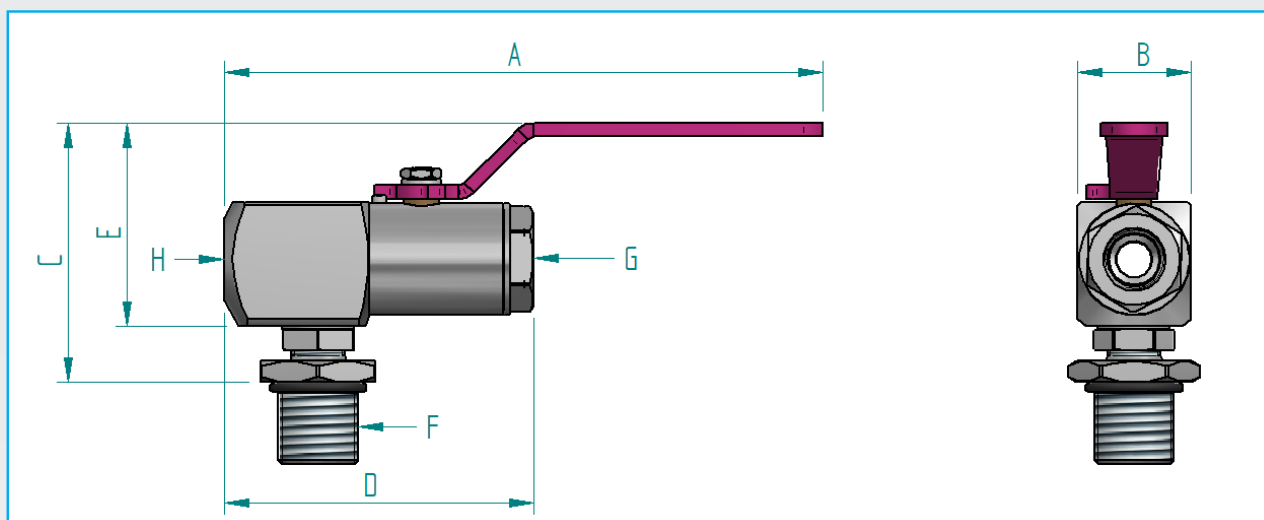
^^ Maximum opening torque at maximum operating pressure.

^^^ TPED-certified to 65 °C, evaluated by Oasis to 85 °C, which exceeds certification scope and must be verified by the system designer.
Contact Oasis for further information.



900 Series TPED Cylinder Valves

Product Dimensions - NPT & SAE



Dimensions - Inch (mm)

Part Code	A	B	C	D	E
TH904 (All NPT & SAE)	8.5" (215mm)	1.6" (41mm)	3.7" (93mm)	4.3" (110mm)	2.9" (73mm)

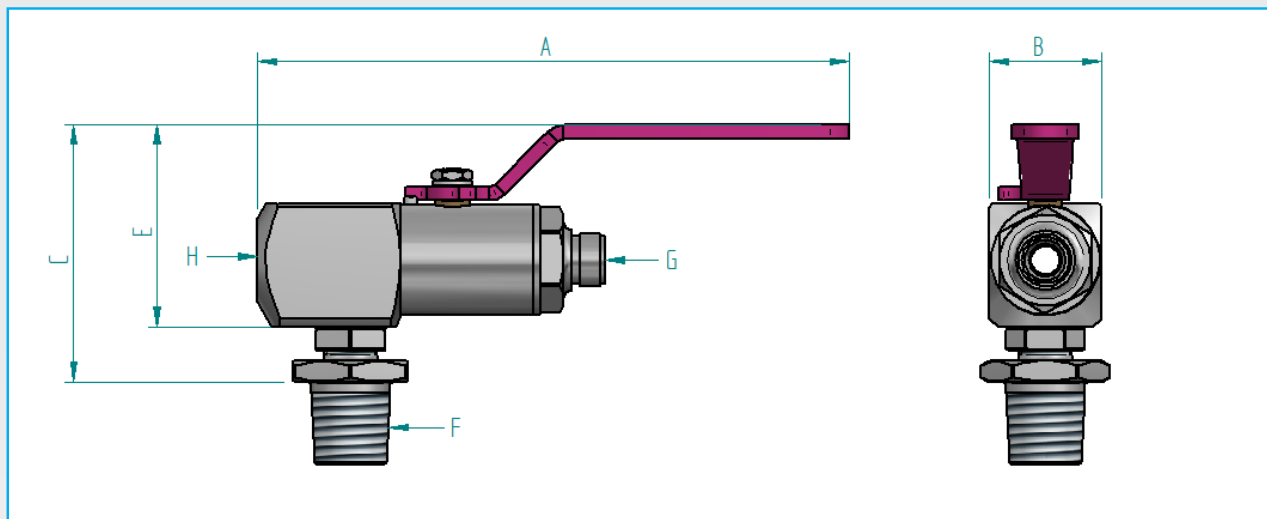
Connection Specifications

Part Code	F (CYLINDER) MALE THREAD	G (END CAP) FEMALE THREAD	H (PRD/LIVE PORT) FEMALE THREAD	PRD TYPE
TH904-63B82T0-G000	25E (W28.8)	NPT (1/2")	9/16-18 SAE	CUSTOMER SUPPLIED REMOTE PRD
TH904-63B92T0-G000	UNF18 (1 1/8-12 UNF)	NPT (1/2")	9/16-18 SAE	
TH904-62B82T0-G000	25E (W28.8)	3/4-16 SAE	9/16-18 SAE	
TH904-62B92T0-G000	UNF18 (1 1/8-12 UNF)	3/4-16 SAE	9/16-18 SAE	
TH904-62B98T0-G000	UNF18 (1 1/8-12 UNF)	3/4-16 SAE	3/8 MP	



900 Series TPED Cylinder Valves

Product Dimensions - Tube



Dimensions - Inch (mm)

Part Code	A	B	C	D	E
TH904-67B82T0-G000	8.4" (214mm)	1.6" (41mm)	3.7" (93mm)	5.4" (138mm)	2.9" (73mm)
TH904-67B92T0-G000					
TH904-68B82T0-G000					
TH904-68B92T0-G000					

Connection Specifications

Part Code	F (CYLINDER) MALE THREAD	G (END CAP) MALE THREAD	H (PRD/LIVE PORT) FEMALE THREAD	PRD TYPE
TH904-67B82T0-G000	25E (W28.8)	12mm TUBE	9/16-18 SAE	CUSTOMER SUPPLIED REMOTE PRD
TH904-67B92T0-G000	UNF18 (1 1/8-12 UNF)			
TH904-68B82T0-G000	25E (W28.8)	16mm TUBE		
TH904-68B92T0-G000	UNF18 (1 1/8-12 UNF)			