

PH1600 SERIES PHARMPURE REGULATOR

LOW PRESSURE, HIGH FLOW, SELF VENTING,
PRESSURE REDUCING REGULATOR
BPE-2004 MJ COMPLIANT
USP CLASS VI COMPLIANT

GENERAL SPECIFICATIONS:

INLET PRESSURE: 300 PSI
OUTLET PRESSURE: SEE TABLE III
DESIGN PROOF PRESSURE: 150% OF RATED PRESSURE
PRESSURE RATING: PER CRITERIA OF ANSI/ASME B31.3
AMBIENT TEMPERATURE: SEE NOTE 6
MEDIA TEMPERATURE: -30°F TO 300°F
LEAKAGE: BUBBLE TIGHT
FLOW CAPACITY (Cv): SEE TABLE IX
WEIGHT: APPROXIMATELY 16 LBS
MATERIALS CONTACTING LINE MEDIA:
SEAT, MAIN VALVE: SEE TABLE IV
SEAT, VENT: SEE TABLE V
O-RING: SEE TABLE IV
BODY: SEE TABLE II
DIAPHRAGM: SEE TABLE IV
VALVE SPRING: ELGILOY
SEAL: PTFE
REMAINING PARTS: 316 SST

ASSEMBLY INFORMATION:

SPRING LOAD, HANDKNOB ADJUST: A67592-01
SPRING LOAD, WRENCH ADJUST: A67592-02
DOME LOAD, NON-VENTING: A67592-03

NOTES:

- CLEAN SERVICE CERTIFICATION
-IDENTIFICATION OF PARTS IN FLOW STREAM
-BODY & FITTINGS, MATERIAL MILL CERTIFICATION
-ACTUAL WELD RECORDS
-WELD GAS PURITY CERTIFICATION
-ASSEMBLY DRAWING
-BILL OF MATERIALS
-CATALOG PAGE
-ACTUAL TEST REPORT
- O-RINGS, DIAPHRAGM, SEAL, AND SEAT MATERIAL
USP CLASS VI COMPLIANT.
- FITTINGS/TUBING WILL BE MARKED WITH
MATERIAL HEAT LOT NUMBER.
- WALL THICKNESS OF TUBE/FITTINGS: .065.
- FLOW CAPACITY OF ORIFICE = 5.0 Cv. PORT SIZE
MAY RESTRICT OVERALL FLOW CAPACITY OF REGULATOR.
- MAXIMUM AMBIENT TEMPERATURE RATING IS 165°F FOR
REGULATORS WITH PLASTIC HAND KNOBS. MAXIMUM AMBIENT
TEMPERATURE RATING IS 300°F FOR REGULATORS WITH
DOME LOAD OR WRENCH ADJUST. MINIMUM AMBIENT TEMPERATURE
IS -30°F FOR ALL OPTIONS.

TABLE IX	FLOW CAPACITY	
	PORT SIZE RESTRICTS FLOW CAPACITY TO:	
	PORT CODE	Cv
	A, 6	2.5
	B, 7	3.5
	C, 8, D, W	5.0

PART NUMBER	"A"	"B"	"C"
PH16XXXXXXXAAX	7.25/7.13	2.49/2.45	- - - - -
PH16XXXXXXXBBX	7.25/7.13	2.07/2.03	- - - - -
PH16XXXXXXXCCX	7.25/7.13	2.07/2.03	- - - - -
PH16XXXXXXXDDX	7.19/7.07	2.07/2.03	- - - - -
PH16XXXXXXX66X	9.91/9.79	2.49/2.45	- - - - -
PH16XXXXXXX77X	9.91/9.79	2.07/2.03	- - - - -
PH16XXXXXXX88X	9.91/9.79	2.07/2.03	- - - - -
PH16XXXXXXXWX	9.91/9.79	2.07/2.03	- - - - -
PH16XXXXXXXXB	- - - - -	- - - - -	3.62/3.56
PH16XXXXXXXX8	- - - - -	- - - - -	4.96/4.90

TABLE I	DASH LTR.	LOAD TYPE
	D	DOME LOAD (AVAILABLE WITH GYLON DIAPH. ONLY)
	H	SPRING LOAD, HANDKNOB
	P	SPRING LOAD, HANDKNOB, PANEL MNT
	W	SPRING LOAD, WRENCH ADJUST

TABLE II	DASH NO.	BODY MATERIAL	BODY SURFACE FINISH
	A	316L SST	20 Ra SFV1
	C	316L SST	30 Ra SFV3

TABLE III	DASH NO.	OUTLET PRESSURE
	0	0-20 PSI
	1	0-50 PSI
	2	0-100 PSI
	3	0-150 PSI
	5	0-250 PSI
	D	0-300 PSI (DOME LOAD ONLY)

TABLE IV	DASH LTR.	SOFT GOODS		
		DIAPHRAGM	O-RINGS	VALVE SEAT
	G	GYLON	E.P.	E.P.

TABLE V	DASH NO.	VENT SEAT
	N	NON-VENTING

WELDING SF-6 CLASS 1 (SFV1, SFV3 SEE TABLE II)							
INLET, OUTLET & GAUGE PORTS							
TABLE VIII	PORT TYPE	1/4 GAUGES ONLY	1/2	3/4	1	1 1/2	NONE
	TRI-CLOVER	-	A	B	C	D	
	TUBE	-	6	7	8	W	
	NPT	F	-	-	-	-	9
	HPIC	Y	-	-	-	-	

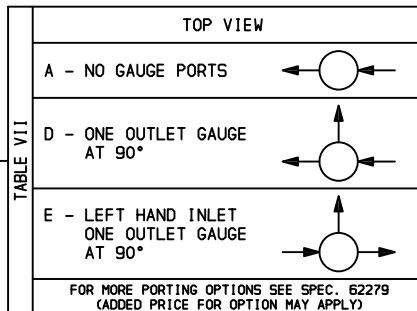
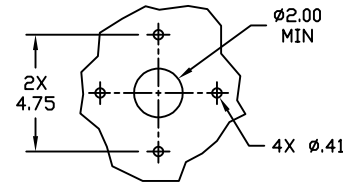
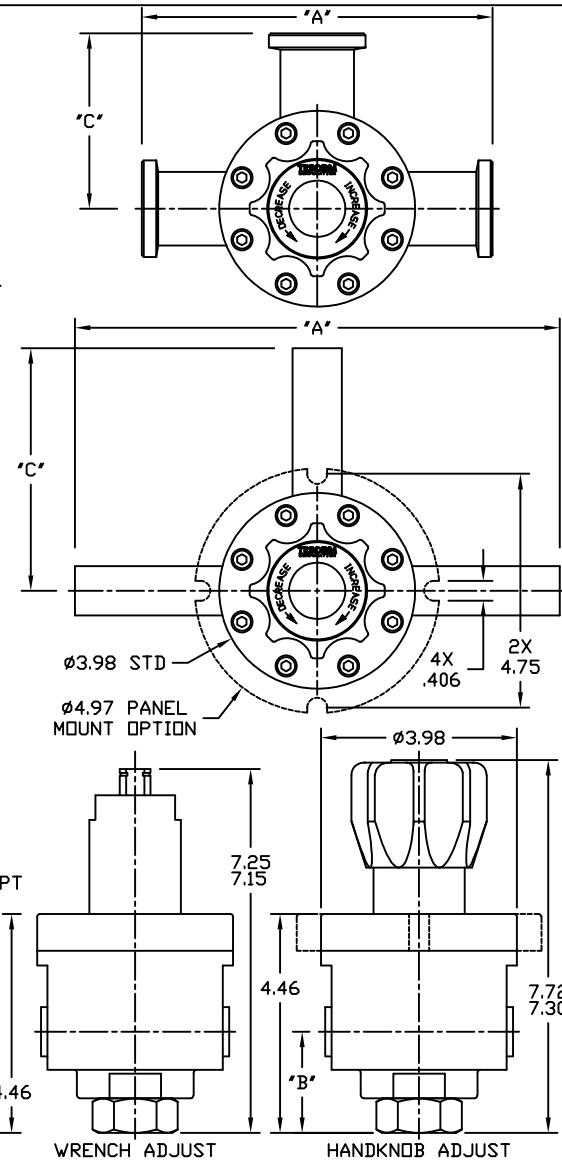


TABLE VI	DASH NO.	CERTIFICATE OF CONFORMANCE
	A	NONE
	B	CLEAN SERVICE CERTIFICATION

PH16XXXXXXX



PANEL CUT-OUT



LB 1-13-20	1060-20	TZ	TWL
LA 6-13-19	50471-19	EW	WRB
L 11-28-11	2822-11	DRM	TWL
K 1-6-11	1014-11	DKD	TWL
J 3-12-10	1390-10	RAG	TWL
H 3-10-08	1232-08	DLH	TWL
G 12-13-07	5700-07	DLH	TWL
F 4-24-07	5212-07	SKO	TWL
E 3-13-07	112-07	DKD	TWL
D 2-8-07	5064-07	SKO	TWL
REV.	DATE	ECO NO.	BY: APPR
REVISIONS			
REFERENCE DRAWING(S)			

TESCOM CORPORATION
INDUSTRIAL CONTROLS DIVISION
ELK RIVER, MN USA

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UNLESS OTHERWISE SPECIFIED:
.0 ± .020 ANGLES: ±1°
.00 ± .010
.000 ± .005
SURFACE ROUGHNESS: 100/
CORNER & FILLET RADIUS: .005-.020
THREADS: CLASS 2
REMOVE ALL BURRS
MFG. SPEC. 60301

DRAWING MADE IN THIRD ANGLE PROJECTION
(DO NOT SCALE DRAWING)

MATERIAL:		
FINISH:		
DRAWN BY: DLH 6-21-06		
CHECKED BY: TWL 7-7-06		
APPROVED BY: TWL 7-7-06		
NAME		
INSTALLATION INFO.		
SCALE: 1 : 1	SIZE C	NUMBER PH16XXXXXXX
CODE NO. 13669	SHT. 1	OF 1