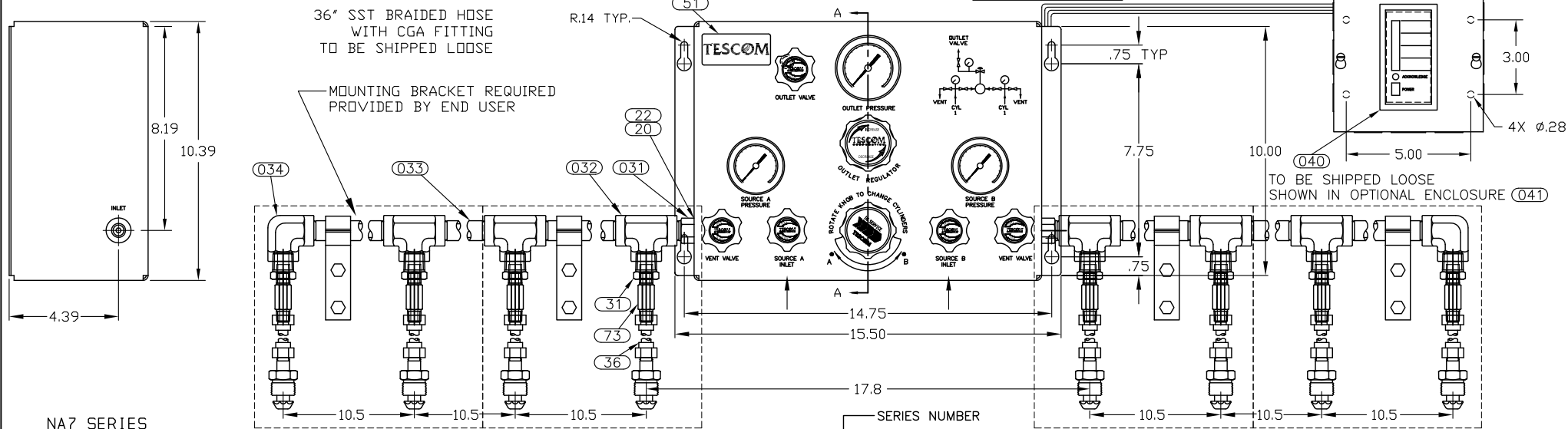


ALL DIMENSIONS REFERENCE



NA7 SERIES

SPRING LOADED, HAND OPERATED, AUTOMATIC CHANGEOVER SYSTEM
VENT VALVE UPSTREAM OF SHUTOFF VALVE. CLEANED PER ASTM G93 & CGA 4.1 SPEC.

MODIFICATION FEATURES:

MAX. INLET: 3000 PSI
36" TEFLON CORE BRAIDED SST HOSES W/ BRASS CONNECTIONS
BRASS CGA 296 OR 540 FITTINGS AVAILABLE
MONEL MAIN VALVES & SEAT RETAINERS IN REGULATORS
ELGILOY DIAPHRAGMS ON REGULATORS AND VALVES
DIFFUSER FITTINGS AT INLETS OF PANEL

NO CHECK VALVES

GENERAL SPECIFICATIONS:

INLET PRESSURE: 3000 PSIG
OUTLET PRESSURE: SEE TABLE II
DESIGN PROOF PRESSURE: 150% OF RATED PRESSURE
PRESSURE RATING: PER CRITERIA OF ANSI/ASME B31.3
OPERATING TEMPERATURE: -40°F TO +165°F
LEAKAGE: INTERNAL: BUBBLE TIGHT
EXTERNAL: BUBBLE TIGHT
FLOW CAPACITY (CV): BRASS: .06
WEIGHT: APPROXIMATELY 10 LBS.

MATERIALS CONTACTING LINE MEDIA:

SEAT: TEFLON (REG'S) CTFE (VALVES)
FRICTION SLEEVE (INNER): TEFLON
FRICTION SLEEVE (OUTER): SEE TABLE I
BODY: SEE TABLE I
DIAPHRAGM: SEE TABLE I
REMAINING PARTS: SEE TABLE I

MATERIALS NOT CONTACTING LINE MEDIA:

PANEL: POWDER COATED CARBON STEEL
STEMS: 316 SST

ASSEMBLY INFORMATION:

FOR ASSEMBLY OF THIS UNIT USE SEE SHEET 2 OF 2
CHANGEOVER REGULATOR: CR4422XX-2XX-XXX
LINE REGULATOR: 44-22XX-2XX-XXXX
VALVES: VH SERIES

- 3 ON MORE THAN FOUR BOTTLE DESIGN, HOSES TO HAVE FNPT END.
- 2 ON A FOUR BOTTLE DESIGN, HOSES TO GO OUT THE BOTTOM AND OUT THE HOLE ON SIDE OF PANEL. NO HEADER IS REQUIRED. HOSES TO HAVE MNPT END.
- 1 ON A TWO BOTTLE DESIGN, HOSES TO GO OUT THE BOTTOM OF VALVE BLOCK AND THE HOLE ON SIDE OF PANEL IS TO BE PLUGGED WITH A METAL HOLE PLUG P/N 5432 (F/N 022). SIDE PORT OF VALVE BLOCK TO BE PLUGGED WITH P/N 9668-X1. HOSES TO HAVE MNPT END.

SERIES NUMBER
NA711210201026

NUMBER OF BOTTLES 1 2 3

TABLE I	DASH NO. / LTR	INLET & OUTLET PORT SIZE & TYPE
1	1	1/4 NPT

TABLE II	DASH NO.	BODY MATERIAL	DIAPHRAGM	SPRING	FRICTION SLEEVE (OUTER)	REMAINING PARTS	GAUGES
1	1	BRASS	ELGILOY	ELGILOY	MONEL	MONEL/BRASS	BRASS

TABLE III	DASH NO.	OUTLET PRESSURE (PSIG)	CHANGEOVER DELIVERY (PSIG)	OUTLET GAUGE (PSIG)
0	0	0-30	270	60
1	1	0-60	270	100
2	2	0-100	270	200
3	3	0-150	270	200
4	4	0-200	450	400
5	5	0-300	450	400

TABLE IV	DASH NO. / LTR	MAX. INLET PRESSURE (PSIG)	INLET GAUGE
1	1	3000	4000

TABLE V	DASH NO. / LTR	OUTLET RELIEF VALVE
0	0	NO
1	1	YES

TABLE X	DASH NO.	CONNECTION TYPE	RELIEF VALVE O-RING	HOSE CORE MATERIAL
0	0	NO CGA FITTINGS NO HOSES	N/A	N/A
1	1	CGA 296 (INDUSTRIAL O2 MIX)	VITON	TEFLON
2	2	CGA 540 (OXYGEN)	VITON	TEFLON
3	3	1/4" FEMALE END	VITON	TEFLON

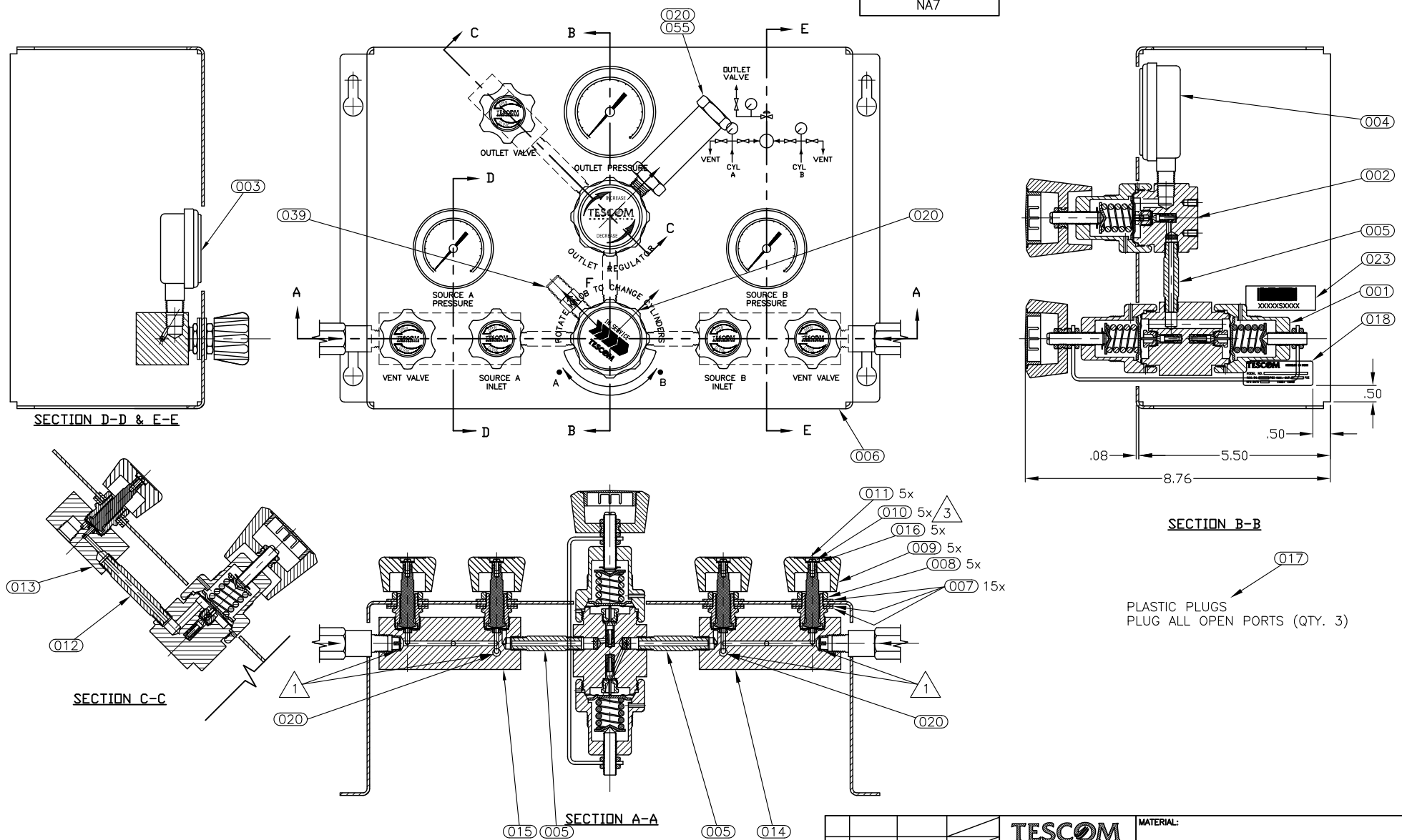
TABLE IX	DASH NO.	CHECK VALVE / SHUTOFF VALVE OPTIONS
0	0	N/A
1	1	
2	2	
3	3	
4	4	

TABLE VII	DASH NO.	PRESSURE SWITCH TYPE
0	0	IPS GAUGES
4	4	N/A

TABLE VIII	DASH NO.	ANNUNCIATOR OPTIONS
0	0	NONE
1	1	REMOTE MOUNT ANNUNCIATOR

TABLE VI	DASH NO.	PRESSURE SWITCHES
0	0	NONE
2	2	INLETS OF CHANGEOVER REGULATOR (2 SWITCHES)

TESCOM CORPORATION INDUSTRIAL CONTROLS DIVISION ELK RIVER, MINN. USA				MATERIAL:	
INFORMATION CONTAINED ON THIS DOCUMENT IS THE PROPERTY OF TESCOM CORPORATION. NO RIGHTS ARE CONVEYED NOR IS PERMISSION TO DISCLOSE TO OTHERS GIVEN.				FINISH:	
UNLESS OTHERWISE SPECIFIED: 0 ± .020 ANGLES: ±1° .00 ± .010 .000 ± .005 SURFACE ROUGHNESS: 100/ CORNER & FILLET RADII: .005-.020 THREADS: CLASS 2 REMOVE ALL BURRS MFG. SPEC. 60301				DRAWN BY: EWN 2-17-09 CHECKED BY: DP 2-20-09 APPROVED BY: DP 2-20-09	
REVISIONS REFERENCE DRAWING(S)				NAME: CHANGEOVER SYSTEM SCALE: 1:3 SIZE: NUMBER NA7 SHT. 1 OF 2	



1 FILTER MUST BE PRESENT IN THE 1/4 NPT INLET PORTS OF VALVES.

3 FIND NO. 010 --- 5-10 IN-LBS.

				TESCOM CORPORATION INDUSTRIAL CONTROLS DIVISION BLK RIVER, MN USA		MATERIAL:	
				INFORMATION CONTAINED ON THIS DOCUMENT IS THE PROPERTY OF TESCOM CORPORATION. NO RIGHTS ARE CONVEYED NOR IS PERMISSION TO DISCLOSE TO OTHERS GIVEN.		FINISH:	
				UNLESS OTHERWISE SPECIFIED: 0 ± .020 ANGLES: ±1° .00 ± .010 .000 ± .005		DRAWN BY: EWN 2-17-09	
				SURFACE ROUGHNESS: 100/ CORNER & FILLET RADII: .005-.020		CHECKED BY: DP 2-20-09	
				THREADS: CLASS 2		APPROVED BY: DP 2-20-09	
				REMOVE ALL BURRS		NAME	
				MFG. SPEC. 60301		ASSEMBLY INFO.	
				DRAWING MADE IN THIRD ANGLE PROJECTION (DO NOT SCALE DRAWING)		SCALE: 1:1	
				REFERENCE DRAWING(S)		SIZE NUMBER NA7	
						CODE NO. 13669	
						SHT. 2 OF 2	