

Categorizing of CSC product conducted per the following:

- 1 PED Article 3, Para 1.3 (a), Group 1 fluid with DN > 25
- 2 PED Category conformity per Annex II, Para. 3; Table 6
- 3 Exceptionally, piping intended for unstable gases falling within Categories I & II on the basis of Table 6, must be classified in Category III
- 4 Valve Sizes (Dash Nos) indicate size: Tube in 1/16" increments & Pipe (*PP) in 1/8" increments
- 5 Attached spreadsheets detail operating pressure (PS), size (DN), & PS*DN criteria used to establish categories
- 6 A summary of categorization is listed below.

| 1 RELIEF VALVES, 500 SERIES | |
|------------------------------------|-------------------------|
| Valve | Material Code: A, B, T1 |
| Dash # | *M, *MP, *SX, *S |
| 1 | IV |
| 2 | IV |
| 3 | IV |
| 4 | IV |
| 6 | IV |
| 8 | IV |
| 10 | IV |

| 2 RELIEF VALVES, MEDIUM PRESSURE, 5100 SERIES | | | | |
|--|----------------------|-----------|-----------|-----------|
| Valve | Material Code: B, T1 | | | |
| Dash # | Size | *BB | Pipe | *M, *MP |
| 1 | - | - | 1/8-NPT | IV |
| 2 | - | - | 1/4-NPT | IV |
| 3 | - | - | 3/8-NPT | IV |
| 4 | 1/4-Tube | IV | 1/2-NPT | IV |
| 6 | - | - | 3/4-NPT | IV |
| 8 | 1/2-Tube | IV | 1-NPT | IV |
| 10 | - | - | 1 1/4-NPT | IV |
| 12 | 3/4-Tube | IV | | - |

| 3 RELIEF VALVES: 5300 SERIES | | | | | | | |
|-------------------------------------|--------------|----------------------|-----------|-----------|----------------|-----------|-----------|
| Valve Dash # | Port Size | Material Code: B, T1 | | | | | |
| | | GAS SERVICE | | | LIQUID SERVICE | | |
| | | *BB | *PP | *G1G1 | *BB | *PP | *G1G1 |
| 2 | 1/4-NPT | - | IV | - | - | IV | - |
| 4 | 1/2-NPT | | IV | | | IV | |
| 4 | 1/4-Tube | IV | - | IV | IV | - | IV |
| 6 | 3/8-Tube | IV | - | - | IV | - | - |
| 8 | 1/2-Tube | IV | - | - | IV | - | - |
| 12 | 3/4-Tube | IV | - | - | IV | - | - |

| 4 RELIEF VALVES, HIGH PRESSURE, HP500 SERIES | | | |
|--|----------------------|-----|--|
| Valve | Material Code: B, T1 | | |
| Dash # | *M | *MP | |
| 2 | IV | IV | |
| 4 | IV | IV | |

| 5 RELIEF VALVES, M5100 SERIES, ASME | | | |
|-------------------------------------|---------|----------------------|--|
| Valve | Port | Material Code: N, T1 | |
| Dash # | Size | *M | |
| 1 | 1/8-NPT | IV | |
| 2 | 1/4-NPT | IV | |
| 3 | 3/8-NPT | IV | |
| 4 | 1/2-NPT | IV | |
| 6 | 3/4-NPT | IV | |
| 8 | 1-NPT | IV | |

| 6 PRESSURE REGULATORS, PVR SERIES | | | |
|-----------------------------------|-----|------|--|
| Valve | PVR | PVRB | |
| Dash # | | | |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |

Not to be used as safety relief.

| 7 RELIEF VALVES, RT ANGLED, R5200 SERIES | | | | |
|--|-----------------|----------------------|-----|--|
| Valve | Port | Material Code: B, T1 | | |
| Porting | Size | *MP, *M4C | *CC | |
| 2MP | 1/4-NPT | IV | - | |
| 3MP | 3/8-NPT | IV | - | |
| 2M4C | 1/4-NPT/Gyrolok | IV | - | |
| 4CC | 1/4-Gyrolok | - | IV | |

| 8 PRESSURE REGULATORS, SR800 SERIES | | | | |
|-------------------------------------|--------------|-------|-------|--|
| Valve | Port | SR800 | SR830 | |
| Dash # | Size | | | |
| 1 | 3/4-16UNJF | | | |
| 2 | 1 1/16-12UNJ | | | |
| 3 | 1/2-NPT | | | |
| XXX (CGA No.) | | | | |

Not to be used as safety re

| 9 CHECK VALVES: 100 SERIES | | |
|-----------------------------------|---------|-------------------------|
| Valve | Port | Material Code: A, B, T1 |
| Dash # | Size | *PP |
| 1 | 1/8-NPT | SEP |
| 2 | 1/4-NPT | SEP |
| 3 | 3/8-NPT | SEP |
| 4 | 1/2-NPT | SEP |
| 6 | 3/4-NPT | SEP |

| 10 Gauge Protectors, 1100 Series | | |
|---|----------|-------------------------|
| Valve | Valve | Material Code: A, B, T1 |
| Dash # | Size | |
| 2 | 1/4-NPT | SEP |
| 4 | 1/4-Tube | SEP |

| 11 CHECK VALVES: 200 SERIES | | | | |
|------------------------------------|-------------------------|-----|-----------|-----|
| Valve | Material Codes | | | |
| | A, B, T1 | | A, B, T1 | |
| | *BB, *RR, *BT, *TB, *TT | | *PP | |
| Dash # | | | | |
| 1 | - | - | 1/8-NPT | SEP |
| 2 | - | - | 1/4-NPT | SEP |
| 3 | - | - | 3/8-NPT | SEP |
| 4 | 1/4-Tube | SEP | 1/2-NPT | SEP |
| 6 | 3/8-Tube | SEP | 3/4-NPT | SEP |
| 8 | 1/2-Tube | SEP | 1-NPT | SEP |
| 10 | 5/8-Tube | SEP | 1 1/4-NPT | II |
| 12 | 3/4-Tube | SEP | 1 1/2-NPT | II |
| 16 | 1-Tube | SEP | 2-NPT | II |
| 20 | 1 1/4-Tube | II | | - |
| 24 | 1 1/2-Tube | II | | - |

| 12 CHECK VALVES: 2200 SERIES | | |
|-------------------------------------|---------|----------------------|
| Valve | Port | Material Code: B, T1 |
| Dash # | Size | *MM, *SS, *PP, *KK |
| 1 | 1/8-NPT | SEP |
| 2 | 1/4-NPT | SEP |
| 3 | 3/8-NPT | SEP |
| 4 | 1/2-NPT | SEP |
| 6 | 3/4-NPT | SEP |
| 8 | 1-NPT | SEP |

| 13 CHECK VALVES: 2300 SERIES | | | | | | | |
|-------------------------------------|-------------------------|-----|---------|-----|-----|-----|-----|
| Valve | Material Code: A, B, T1 | | | | | | |
| Dash # | Size | *BB | Size | *MM | *PM | *MP | *SS |
| 1 | | - | 1/8-NPT | - | - | - | SEP |
| 2 | | - | 1/4-NPT | SEP | SEP | SEP | SEP |
| 3 | | - | 3/8-NPT | SEP | SEP | SEP | SEP |
| 4 | 1/4-Tube | SEP | 1/2-NPT | SEP | SEP | SEP | SEP |
| 6 | 3/8-Tube | SEP | 3/4-NPT | - | - | - | SEP |
| 8 | 1/2-Tube | SEP | 1-NPT | SEP | - | - | - |
| 10 | 5/8-Tube | SEP | | | - | - | - |
| 12 | 3/4-Tube | SEP | | - | - | - | - |

| 14 CHECK VALVES: BIVCO 3000 SERIES | | |
|---|------------|--------------------------------|
| Basic P/N | Valve Size | Material Code: Brass, SS (316) |
| 3004 | 1/4-NPT | SEP |
| 3006 | 3/8-NPT | SEP |
| 3008 | 1/2-NPT | SEP |
| 3012 | 3/4-NPT | SEP |
| 3016 | 1-NPT | SEP |

| 15 SHUTTLE VALVES: 400/H400 SERIES | | | | | | | |
|---|---------------------|------|------|------|------|------|------|
| Valve | Material Code: A, B | | | | | | M |
| Dash # | *BBB | *PPP | *TTB | *EEB | *BTB | *BBB | *PPP |
| 1 | - | SEP | - | - | - | - | SEP |
| 2 | - | SEP | - | - | - | - | SEP |
| 3 | - | - | - | - | - | - | - |
| 4 | SEP | SEP | SEP | SEP | - | SEP | SEP |
| 6 | SEP | SEP | SEP | - | SEP | SEP | SEP |
| 8 | SEP | SEP | SEP | - | - | SEP | SEP |
| 10 | - | - | - | - | - | - | - |
| 12 | II | II | II | - | - | II | II |
| 16 | II | II | - | - | - | II | II |

| 16 SHUTOFF VALVES: 9400 SERIES | | | | | |
|---------------------------------------|----------------------|-------|-------|--------|-------|
| Valve | Valve Series | | | | |
| | 9400 | R9400 | N9400 | TM9400 | T9400 |
| Dash # | Material Code: B, T1 | | | | |
| 2MM | SEP | - | SEP | SEP | SEP |
| 2MP | SEP | SEP | - | - | - |
| 2PP | SEP | SEP | SEP | SEP | SEP |
| 2CC | SEP | - | SEP | SEP | SEP |
| 4CC | SEP | - | SEP | SEP | SEP |
| 6CC | SEP | - | SEP | SEP | SEP |

| | | | |
|-----------------|------------------------------------|----------------------|--|
| 17 | Shutoff Valves, 9500 Series | | |
| Valve Dash # | Valve Size | Material Code: B, T1 | |
| 1MM | 1/8-NPT | SEP | |
| 2MM | 1/4-NPT | SEP | |
| 1PP | 1/8-NPT | SEP | |
| 2PP | 1/4-NPT | SEP | |
| 4CC | 1/4-TUBE | SEP | |
| 6CC | 3/8-TUBE | SEP | |

| | | | | | |
|-----------------|----------------------------------|------------|-----------------|------------|--|
| 18 | CHECK VALVES: H200 SERIES | | | | |
| | Material Codes | | | | |
| Valve Dash # | A, B, T1 | | A, B, T1 | | |
| | *BB, *RR, *BT, *TB, *TT | | *PP | | |
| 1 | - | - | 1/8-NPT | SEP | |
| 2 | - | - | 1/4-NPT | SEP | |
| 3 | - | - | 3/8-NPT | SEP | |
| 4 | 1/4-Tube | SEP | 1/2-NPT | SEP | |
| 6 | 3/8-Tube | SEP | 3/4-NPT | SEP | |
| 8 | 1/2-Tube | SEP | 1-NPT | SEP | |
| 10 | 5/8-Tube | SEP | 1 1/4-NPT | II | |
| 12 | 3/4-Tube | II | 1 1/2-NPT | II | |
| 16 | 1-Tube | II | 2-NPT | - | |
| 20 | 1 1/4-Tube | II | | - | |

lief.

| *SS | *XX | *PP |
|------------|------------|------------|
| - | - | SEP |
| SEP | SEP | SEP |
| - | SEP | SEP |
| - | SEP | SEP |
| - | SEP | SEP |
| - | - | - |
| - | - | - |
| - | - | - |

| Material Code: T1 | | |
|-------------------|------------|------------|
| *TTB | *EEB | *BTB |
| - | - | - |
| - | - | - |
| - | - | - |
| SEP | SEP | - |
| SEP | - | SEP |
| SEP | - | - |
| - | - | - |
| - | - | - |
| - | - | - |