

| <u>ITEM NO.</u> | <u>VALVE SERIES</u> | <u>VALVE NAME</u> | <u>CATEGORY</u> | <u>STATUS</u> |
|--------------------------------|---|-----------------------------|-----------------|--|
| <u>CATEGORY I - III</u> | | | | |
| 1 | 100 | CHECK VALVE | SEP | ALL ARE 1" OR UNDER |
| 2 | 1100 | GAUGE PROTECTOR | SEP | ALL ARE 1" OR UNDER |
| 3 | 200 | CHECK VALVE | BOTH | SEP for < 1"; Category II for 1 1/16" & larger |
| 4 | 2200 | CHECK VALVE | SEP | ALL ARE 1" OR UNDER |
| 5 | 2300 | CHECK VALVE | SEP | ALL ARE 1" OR UNDER |
| 6 | 3000 (Bivco) | CHECK VALVE | SEP | ALL ARE 1" OR UNDER |
| 7 | 400 H400T | SHUTTLE VALVE | SEP | ALL ARE 1" OR UNDER |
| 8 | 9400 9400/R9400 N9400/TM9400 T9400 | SHUTOFF VALVE | SEP | ALL ARE 1" OR UNDER |
| 9 | 9500 | SHUTOFF VALVE | SEP | ALL ARE 1" OR UNDER |
| 10 | C200 | CHECK VALVE | N/A | N/A - CARTRIDGE VALVE |
| 11 | C2900 | CHECK VALVE | N/A | N/A - CARTRIDGE VALVE |
| 12 | H200 | CHECK VALVE | BOTH | SEP for < 1"; Category II for 1 1/16" & larger |
| <u>CATEGORY IV</u> | | | | |
| 13 | 500 | RELIEF VALVE | PED | |
| 14 | D500 | RELIEF VALVE | PED | |
| 15 | HP500 | RELIEF VALVE | PED | |
| 16 | 5100 | RELIEF VALVE | PED | |
| 17 | 5300 | RELIEF VALVE | PED | |
| 18 | R5200 | RELIEF VALVE | PED | |
| 19 | 500 ASME | RELIEF VALVE | PED | |
| 20 | M5100 ASME | RELIEF VALVE | PED | |
| 21 | PVR | PRESSURE REDUCING REGULATOR | PED | |
| | PVRB | BACK PRESSURE REGULATOR | PED | |
| 22 | SR800 | PRESSURE REGULATOR | PED | |

Engineering documentation for valves listed below has been completed & is on file.
 However, they have not been formally reviewed for compliance to PED, EMC and/or LVD.

| | | | | |
|-------------|-------------------|---------------------|-------|---------------------|
| 1 | 15000 ATKO | SOLENOID VALVE | | |
| | 15400-15440 | | SEP | ALL ARE 1" OR UNDER |
| | 15401-15447 | | SEP | ALL ARE 1" OR UNDER |
| | 15458-15468 | | SEP | ALL ARE 1" OR UNDER |
| | 15800-15840 | | SEP | ALL ARE 1" OR UNDER |
| 2 | 30000 ATKO | SOLENOID VALVE | | |
| | 31400-31460 | | PED | |
| | 31570-31590 | | PED | |
| | 31570 | | PED | |
| | 31580 | | PED | |
| | 31590 | | PED | |
| | 31800-31840 | | SEP | ALL ARE 1" OR UNDER |
| | 31850-31860 | | PED | |
| | 31851-31871 | | PED | |
| | 32400-32460 | | PED | |
| 35820-35840 | SEP | ALL ARE 1" OR UNDER | | |
| | 35871 | PED | | |
| 3 | SV10 | SOLENOID VALVE | ***** | PHASE 2 |
| 4 | SV400 | SOLENOID VALVE | ***** | PHASE 2 |
| | SV430 Series | | | |
| | SV460 Series | | | |
| 5 | 600 | SOLENOID VALVE | ***** | PHASE 2 |

100 Series

NOTES:

- 1 PED categorizing per 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 in 1/8" increments

| CHECK VALVES: 100 SERIES | | | | | |
|---------------------------------|---------|-----------|---------------|-------|-------------------------|
| Valve Dash # | Port | Size (DN) | Pressure (PS) | PS*DN | Material Code: A, B, T1 |
| | | | | | *PP |
| 1 | 1/8-NPT | 6 | 25 | 150 | SEP |
| 2 | 1/4-NPT | 8 | 25 | 200 | SEP |
| 3 | 3/8-NPT | 10 | 25 | 250 | SEP |
| 4 | 1/2-NPT | 15 | 25 | 375 | SEP |
| 6 | 3/4-NPT | 20 | 25 | 500 | SEP |

| CHECK VALVES: 100 SERIES | | |
|---------------------------------|-----------|-------------------------|
| Valve Dash # | Port Size | Material Code: A, B, T1 |
| | | *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 |

Gauge Protectors, 1100 Series

NOTES:

- 1 PED categorizing per 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**

| P/N | Valve Size | Size (DN) | Max. Design Pressure (psi) | PS (bar) | PS*DN | Category |
|--------|------------|-----------|----------------------------|----------|-------|----------|
| 1100-2 | 1/4-NPT | 8 | 6000 | 414 | 3310 | SEP |
| 1100-4 | 7/16-20UNF | 11 | 6000 | 414 | 4604 | SEP |

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

Check Valves, Low Pressure

NOTES:

- 1 PED categorizing per 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**

| Material Codes: B, T1 | | | | | | | | | |
|-----------------------|------------|-----------|----------------------------|----------|-------|----------|----------|----------|----------|
| SERIES 2200 | | | | | | 2200-*MM | 2200-*SS | 2200-*PP | 2200-*KK |
| P/N | Valve Size | Size (DN) | Max. Design Pressure (psi) | PS (bar) | PS*DN | Category | Category | Category | Category |
| 2200-1 | 1/8-NPT | 6 | 800 | 55 | 331 | SEP | SEP | SEP | SEP |
| 2200-2 | 1/4-NPT | 8 | 800 | 55 | 441 | SEP | SEP | SEP | SEP |
| 2200-3 | 3/8-NPT | 10 | 800 | 55 | 552 | SEP | SEP | SEP | SEP |
| 2200-4 | 1/2-NPT | 15 | 800 | 55 | 828 | SEP | SEP | SEP | SEP |
| 2200-6 | 3/4-NPT | 20 | 800 | 55 | 1103 | SEP | SEP | SEP | SEP |
| 2200-8 | 1-NPT | 25 | 800 | 55 | 1379 | SEP | SEP | SEP | SEP |

| CHECK VALVES: 2200 SERIES | | |
|---------------------------|-----------|--|
| Valve Dash # | Port Size | Material Code: B, T1 *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 |

Valve Series: 3000 Series (BIVCO)

| | | | Per ASME Sect II, Part D | | |
|--------------------------------|--------|--|-----------------------------|--------------------------|-------------------|
| Material Specification: | | | <u>Min Tensile UTS @ RT</u> | <u>Max Allow. Stress</u> | <u>@ Max Temp</u> |
| CSC Code | | | | | |
| B | Brass | QQ-B-626, Comp 22, 1/2 Hard, or 360, 1/2 Hard | | | |
| | | ASTM B16, 1/2 Hard, Stress Relieve 1" Hex & larger | 50,000 | 14,286 | RT |
| T1 | 316 SS | ASTM A479, QQ-S-763, Cond A | 75,000 | 20,000 | RT |

Pressure Class: 120 psig

Impact Test Required: No

Min. Design Metal Temperature (MDMT): +70 °F (+21 °C)

Flowing Media **Max. Temperature (°F)**
Fluids Room Temperature (RT)

Risk Analysis:

Hoop Stress calculated for this Valve Series has been compared to allowable stress values as permitted per ASME B31.1 ratios. Maximum stress values are lower than the allowable limits. Material UTS is, for the most part unaffected at the extreme temperature limits noted above.

Design Review:

The BIVCO 3000 Series Valves are in-line, compact and easy to install. They provide good flow capacity with a leakproof seal upto the pressure range specified. Materials used in the construction are, for the most part resistant to corrosion and the fluid media they are expected to work in. The large seating areas provide sensitivity and fast response. The poppet is streamlined and offers minimum restriction to flow. This Series is available in a limited range of pipe connection sizes.

Valve Series: (Ref.: ESR 21316)

900

| | | | | Spec. | (2/3) YS | | | |
|-------------------------|----------|--------|------------------------------------|-------|----------|-----------|---------------|----------------------------------|
| Material Specification: | | | | | UTS @ RT | YS @ Temp | Allow. Stress | @ Max Temp |
| | Forging | 303 | ASTM A314 or AMS 5640 or ASTM A582 | na | | | | |
| | " | 304 | AMS 5639 (Ref. QQ-S-763) | A182 | 75,000 | 21,550 | 14,367 | +350 °F ASME Sect IID, Table Y-1 |
| | " | 316 | ASTM A314 or ASTM A182 | A182 | 75,000 | 22,400 | 14,933 | " & PED Para 7.2 |
| T1 | Barstock | 316 SS | ASTM A479, QQ-S-763, Cond A | A479 | 75,000 | 30,000 | 14,933 | +350 °F " |

Pressure Class:

| | |
|-----------------------------|-----------|
| N*900T, B*900T (Gas), 900T, | 6000 psig |
| T900T, R900T, RT900T | 6000 psig |
| Y900-2PP,-4BBB,-6BBB,4T6BB | 6000 psig |
| Z900-2PP,-4BBB,-6BBB,4T6BB | 6000 psig |
| Y900-6TBB, Z900-6TBB | 6000 psig |
| B*900T (liquid) | 3000 psig |
| A*900T | 2000 psig |

Impact Test Required:

No

Min. Design Metal Temperature (MDMT):

-40 °F (-40 °C)

Based on Seal material

Flowing Media

Fluids

Max. Temperature (°F)

+350 °F (+177 °C)

Based on Seal material

Risk Analysis:

Hoop Stress calculated for this Valve Series has been compared to allowable stress values as permitted per ASME B31.1 ratios. Maximum stress values are lower than the allowable limits. Material UTS is, for the most part unaffected at the extreme temperature limits noted above.

Design Review:

The 900 Series are manual shutoff Valves. They are compact, easy to install, and provide a leakproof seal under the pressure range specified. Materials used in the construction are, for the most part resistant to corrosion and the fluid media they are expected to work in. The valves provide no stem leakage with minimum pressure drop. This Series is available in a range of connection sizes.

Shutoff Valves, 9400 Series

NOTES:

- 1 PED categorizing per 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**

| Dash # | Size | Size (DN) | Max. Design Pressure (psi) | PS (bar) | 9400 | | R9400 | |
|--------|------------|-----------|----------------------------|----------|-------|----------|-------|----------|
| | | | | | PS*DN | Category | PS*DN | Category |
| 2MM | 1/4-NPT | 8 | 2200 | 152 | 1214 | SEP | - | - |
| 2MP | " | 8 | 2200 | 152 | 1214 | SEP | 1214 | SEP |
| 2PP | " | 8 | 2200 | 152 | 1214 | SEP | 1214 | SEP |
| 2CC | 5/16-24UNF | 8 | 2200 | 152 | 1202 | SEP | - | - |
| 4CC | 7/16-20UNF | 11 | 2200 | 152 | 1688 | SEP | - | - |
| 6CC | 9/16-18UNF | 14 | 2200 | 152 | 2166 | SEP | - | - |

| Dash # | Size | Size (DN) | Max. Design Pressure (psi) | PS (bar) | N9400 | | TM9400 | |
|--------|------------|-----------|----------------------------|----------|-------|----------|--------|----------|
| | | | | | PS*DN | Category | PS*DN | Category |
| 2MM | 1/4-NPT | 8 | 3000 | 207 | 1655 | SEP | 1655 | SEP |
| 2MP | " | 8 | 3000 | 207 | - | - | - | - |
| 2PP | " | 8 | 3000 | 207 | 1655 | SEP | 1655 | SEP |
| 2CC | 5/16-24UNF | 8 | 3000 | 207 | 1640 | SEP | 1640 | SEP |
| 4CC | 7/16-20UNF | 11 | 3000 | 207 | 2302 | SEP | 2302 | SEP |
| 6CC | 9/16-18UNF | 14 | 3000 | 207 | 2953 | SEP | 2953 | SEP |

| Dash # | Size | Size (DN) | Max. Design Pressure (psi) | PS (bar) | T9400 | |
|--------|------------|-----------|----------------------------|----------|-------|----------|
| | | | | | PS*DN | Category |
| 2MM | 1/4-NPT | 8 | 500 | 34 | 276 | SEP |
| 2MP | " | 8 | 500 | 34 | - | - |
| 2PP | " | 8 | 500 | 34 | 276 | SEP |
| 2CC | 5/16-24UNF | 8 | 500 | 34 | 273 | SEP |
| 4CC | 7/16-20UNF | 11 | 500 | 34 | 384 | SEP |
| 6CC | 9/16-18UNF | 14 | 500 | 34 | 492 | SEP |

| SHUTOFF VALVES: 9400 SERIES | | | | | |
|------------------------------------|--------------|-------|-------|--------|-------|
| Valve Dash # | Valve Series | | | | |
| | 9400 | R9400 | N9400 | TM9400 | T9400 |
| 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 |

Shutoff Valves, 9500 Series

NOTES:

- 1 PED categorizing per 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**

| 9500 | | | | | | |
|-------------|------------|-----------|----------------------------|----------|-------|----------|
| Dash # | Size | Size (DN) | Max. Design Pressure (psi) | PS (bar) | PS*DN | Category |
| 1MM | 1/8-NPT | 6 | 3000 | 207 | 1241 | SEP |
| 2MM | 1/4-NPT | 8 | 3000 | 207 | 1655 | SEP |
| 1PP | 1/8-NPT | 6 | 3000 | 207 | 1241 | SEP |
| 2PP | 1/4-NPT | 8 | 3000 | 207 | 1655 | SEP |
| 4CC | 7/16-20UNF | 11 | 3000 | 207 | 2302 | SEP |
| 6CC | 9/16-18UNF | 14 | 3000 | 207 | 2953 | SEP |

| Shutoff Valves, 9500 Series | | |
|------------------------------------|------------|---------------------|
| Valve Dash # | Valve Size | Material Code: B, T |
| 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 |

Cartridge Valves

NOTES:

- 1 PED categorizing per 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 ***Cartridge Valves regardless of size are considered to fall into SEP Category as they are installed within a housing***

| Cartridge Valves, C200 SERIES | |
|-------------------------------|----------------------------|
| Valve Dash # | Material Code A, A1, T1 |
| 1Q | SEP |
| 2Q | SEP |
| 4Q | SEP |
| 6Q | SEP |
| 10Q | SEP |

Cartridge Valves

NOTES:

- 1 PED categorizing per 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 ***Cartridge Valves regardless of size are considered to fall into SEP Category as they are installed within a housing***

| Cartridge Valves, C2900 SERIES | |
|--------------------------------|----------------------------|
| Valve Dash # | Material Code A, A1, T1 |
| 4Q | SEP |
| 6Q | SEP |
| 8Q | SEP |
| 10Q | SEP |
| 12Q | SEP |
| 16Q | SEP |

H200 Series Check valves

NOTES:

- 1 PED categorizing per 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

| Material Code: T1 | | | | | | | | | | |
|-------------------|----------------------------------|-----------|----------------|----------|-------------------|-----------|-----------|----------------|----------|-------------------|
| Valve Size | 200-''BB, ''RR, ''BT, ''TB, ''TT | | | | | 200-''PP | | | | |
| | Port | Size (DN) | Pressure Class | | Annex II, Table 6 | Port | Size (DN) | Pressure Class | | Annex II, Table 6 |
| | | | psi | bar (PS) | PS'DN Category | | | psi | bar (PS) | PS'DN Category |
| H200-1 | - | - | - | - | - | 1/8-NPT | 6 | 3625 | 250 | 1500 SEP |
| H200-2 | - | - | - | - | - | 1/4-NPT | 8 | 4125 | 284 | 2276 SEP |
| H200-3 | - | - | - | - | - | 3/8-NPT | 10 | 4020 | 277 | 2772 SEP |
| H200-4 | 7/16-20UNF | 11 | 5050 | 348 | 3875 SEP | 1/2-NPT | 15 | 4625 | 319 | 4784 SEP |
| H200-6 | 9/16-18UNF | 14 | 3625 | 250 | 3569 SEP | 3/4-NPT | 20 | 4400 | 303 | 6069 SEP |
| H200-8 | 3/4-16UNF | 20 | 4125 | 284 | 5690 SEP | 1-NPT | 25 | 5900 | 407 | 10172 SEP |
| H200-10 | 7/8-14UNF | 22 | 4020 | 277 | 6162 SEP | 1 1/4-NPT | 32 | 5925 | 409 | 13076 II |
| H200-12 | 1 1/16-12UN | 27 | 4675 | 322 | 8697 II | 1 1/2-NPT | 40 | 5925 | 409 | 16345 II |
| H200-16 | 1 5/16-12UN | 33 | 4350 | 300 | 9997 II | 2-NPT | 50 | - | - | - |
| H200-20 | 1 5/8-12UN | 41 | 5900 | 407 | 16795 II | - | - | - | - | - |
| H200-24 | - | - | - | - | - | - | - | - | - | - |

derated from 6000

| Material Code: A | | | | | | | | | | |
|------------------|----------------------------------|-----------|----------------|----------|-------------------|-----------|-----------|----------------|----------|-------------------|
| Valve Size | 200-''BB, ''RR, ''BT, ''TB, ''TT | | | | | 200-''PP | | | | |
| | Port | Size (DN) | Pressure Class | | Annex II, Table 6 | Port | Size (DN) | Pressure Class | | Annex II, Table 6 |
| | | | psi | bar (PS) | PS'DN Category | | | psi | bar (PS) | PS'DN Category |
| H200-1 | - | - | - | - | - | 1/8-NPT | 6 | 4825 | 333 | 1997 SEP |
| H200-2 | - | - | - | - | - | 1/4-NPT | 8 | 4125 | 284 | 2276 SEP |
| H200-3 | - | - | - | - | - | 3/8-NPT | 10 | 5650 | 390 | 3897 SEP |
| H200-4 | 7/16-20UNF | 11 | 6000 | 414 | 4604 SEP | 1/2-NPT | 15 | 4725 | 326 | 4888 SEP |
| H200-6 | 9/16-18UNF | 14 | 4825 | 333 | 4750 SEP | 3/4-NPT | 20 | 4400 | 303 | 6069 SEP |
| H200-8 | 3/4-16UNF | 20 | 4175 | 288 | 5759 SEP | 1-NPT | 25 | 4250 | 293 | 7328 SEP |
| H200-10 | 7/8-14UNF | 22 | 5000 | 345 | 7664 SEP | 1 1/4-NPT | 32 | 6000 | 414 | 13241 II |
| H200-12 | 1 1/16-12UN | 27 | 4725 | 326 | 8790 II | 1 1/2-NPT | 40 | 6000 | 414 | 16552 II |
| H200-16 | 1 5/16-12UN | 33 | 4400 | 303 | 10112 II | 2-NPT | 50 | - | - | - |
| H200-20 | 1 5/8-12UN | 41 | 4250 | 293 | 12098 II | - | - | - | - | - |
| H200-24 | - | - | - | - | - | - | - | - | - | - |

derated from 6000

| Material Code: B | | | | | | | | | | |
|------------------|----------------------------------|-----------|----------------|----------|-------------------|-----------|-----------|----------------|----------|-------------------|
| Valve Size | 200-''BB, ''RR, ''BT, ''TB, ''TT | | | | | 200-''PP | | | | |
| | Port | Size (DN) | Pressure Class | | Annex II, Table 6 | Port | Size (DN) | Pressure Class | | Annex II, Table 6 |
| | | | psi | bar (PS) | PS'DN Category | | | psi | bar (PS) | PS'DN Category |
| H200-1 | - | - | - | - | - | 1/8-NPT | 6 | 3900 | 269 | 1614 SEP |
| H200-2 | - | - | - | - | - | 1/4-NPT | 8 | 4775 | 329 | 2634 SEP |
| H200-3 | - | - | - | - | - | 3/8-NPT | 10 | 4550 | 314 | 3138 SEP |
| H200-4 | 7/16-20UNF | 11 | 5000 | 345 | 3836 SEP | 1/2-NPT | 15 | 4725 | 326 | 4888 SEP |
| H200-6 | 9/16-18UNF | 14 | 3900 | 269 | 3839 SEP | 3/4-NPT | 20 | 5000 | 345 | 6897 SEP |
| H200-8 | 3/4-16UNF | 20 | 4775 | 329 | 6586 SEP | 1-NPT | 25 | 4825 | 333 | 8319 SEP |
| H200-10 | 7/8-14UNF | 22 | 4550 | 314 | 6974 SEP | 1 1/4-NPT | 32 | 5000 | 345 | 11034 II |
| H200-12 | 1 1/16-12UN | 27 | 4725 | 326 | 8790 II | 1 1/2-NPT | 40 | 5000 | 345 | 13793 II |
| H200-16 | 1 5/16-12UN | 33 | 5000 | 345 | 11491 II | 2-NPT | 50 | - | - | - |
| H200-20 | 1 5/8-12UN | 41 | 4825 | 333 | 13735 II | - | - | - | - | - |
| H200-24 | - | - | - | - | - | - | - | - | - | - |

derated from 5000

| Material Code: A1 | | | | | | | | | | |
|-------------------|----------------------------------|-----------|----------------|----------|-------------------|-----------|-----------|----------------|----------|-------------------|
| Valve Size | 200-''BB, ''RR, ''BT, ''TB, ''TT | | | | | 200-''PP | | | | |
| | Port | Size (DN) | Pressure Class | | Annex II, Table 6 | Port | Size (DN) | Pressure Class | | Annex II, Table 6 |
| | | | psi | bar (PS) | PS'DN Category | | | psi | bar (PS) | PS'DN Category |
| H200-1 | - | - | - | - | - | 1/8-NPT | 6 | 2975 | 205 | 1231 SEP |
| H200-2 | - | - | - | - | - | 1/4-NPT | 8 | 2600 | 179 | 1434 SEP |
| H200-3 | - | - | - | - | - | 3/8-NPT | 10 | 3475 | 240 | 2397 SEP |
| H200-4 | 7/16-20UNF | 11 | 3900 | 269 | 2992 SEP | 1/2-NPT | 15 | 2900 | 200 | 3000 SEP |
| H200-6 | 9/16-18UNF | 14 | 2975 | 205 | 2929 SEP | 3/4-NPT | 20 | 2700 | 186 | 3724 SEP |
| H200-8 | 3/4-16UNF | 20 | 2575 | 178 | 3552 SEP | 1-NPT | 25 | 2600 | 179 | 4483 SEP |
| H200-10 | 7/8-14UNF | 22 | 3475 | 240 | 5326 SEP | 1 1/4-NPT | 32 | 3975 | 274 | 8772 II |
| H200-12 | 1 1/16-12UN | 27 | 2900 | 200 | 5395 II | 1 1/2-NPT | 40 | 3975 | 274 | 10966 II |
| H200-16 | 1 5/16-12UN | 33 | 2700 | 186 | 6205 II | 2-NPT | 50 | - | - | - |
| H200-20 | 1 5/8-12UN | 41 | 2600 | 179 | 7401 II | - | - | - | - | - |
| H200-24 | - | - | - | - | - | - | - | - | - | - |

derated from 4000

CHECK VALVES: H200 SERIES

| Valve Dash # | Material Codes | | | |
|--------------|------------------------------|-----|--------------|-----|
| | A, A1, B, T1 | | A, A1, B, T1 | |
| | ''BB, ''RR, ''BT, ''TB, ''TT | | ''PP | |
| 1 | - | - | 1/8-NPT | SEP |
| 2 | - | - | 1/4-NPT | SEP |
| 3 | - | - | 3/8-NPT | SEP |
| 4 | 7/16-20UNF | SEP | 1/2-NPT | SEP |
| 6 | 9/16-18UNF | SEP | 3/4-NPT | SEP |
| 8 | 3/4-16UNF | SEP | 1-NPT | SEP |
| 10 | 7/8-14UNF | SEP | 1 1/4-NPT | II |
| 12 | 1 1/16-12UN | II | 1 1/2-NPT | II |
| 16 | 1 5/16-12UN | II | 2-NPT | - |
| 20 | 1 5/8-12UN | II | - | - |