

<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>
<u>CSC Code</u>					
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.

400/H400 Series Shuttle 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 No) indicate size: Tube in 1/16" increments & Pipe (PP) in 1/8" increments

Material Codes: A																						
Pressure Rating & PED Category for 400 Series																						
Valve Size	Port Type	Size (DN)	*BBB				*PPP				*TTB				*EEB				*BTB			
			Pressure Class		PS'DN	Cat.	Pressure Class		PS'DN	Cat.	Pressure Class		PS'DN	Cat.	Pressure Class		PS'DN	Cat.	Pressure Class		PS'DN	Cat.
psi	bar (PS)	psi	bar (PS)	psi			bar (PS)	psi			bar (PS)	psi			bar (PS)	psi			bar (PS)	psi		
400-1	1/8-NPT	6	-	-	-	-	3000	207	1241	SEP	-	-	-	-	-	-	-	-	-	-		
400-2	1/4-NPT	8	-	-	-	-	3000	207	1655	SEP	-	-	-	-	-	-	-	-	-	-		
400-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
400-4	1/4-Tube	8	3000	207	1655	SEP	-	-	-	3000	207	1655	SEP	3000	207	1655	SEP	-	-	-		
400-6	3/8-Tube	10	3000	207	2069	SEP	-	-	-	3000	207	2069	SEP	-	-	-	-	3000	207	2069		
400-8	1/2-Tube	12	2950	203	2441	SEP	-	-	-	3000	207	2483	SEP	-	-	-	-	-	-	-		
400-10	5/8-Tube	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
400-12	3/4-Tube	20	1800	124	2483	II	-	-	-	1800	124	2483	II	-	-	-	-	-	-	-		
400-16	1-Tube	25	1750	121	3017	II	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

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Material Codes: A1																						
Pressure Rating & PED Category for 400 Series																						
Valve Size	Port Type	Size (DN)	*BBB				*PPP				*TTB				*EEB				*BTB			
			Pressure Class		PS'DN	Cat.	Pressure Class		PS'DN	Cat.	Pressure Class		PS'DN	Cat.	Pressure Class		PS'DN	Cat.	Pressure Class		PS'DN	Cat.
psi	bar (PS)	psi	bar (PS)	psi			bar (PS)	psi			bar (PS)	psi			bar (PS)	psi			bar (PS)	psi		
400-1	1/8-NPT	6	-	-	-	-	2400	166	993	SEP	-	-	-	-	-	-	-	-	-	-		
400-2	1/4-NPT	8	-	-	-	-	2075	143	1145	SEP	-	-	-	-	-	-	-	-	-	-		
400-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
400-4	1/4-Tube	8	3000	207	1655	SEP	-	-	-	3000	207	1655	SEP	3000	207	1655	SEP	-	-	-		
400-6	3/8-Tube	10	2400	166	1655	SEP	-	-	-	2400	166	1655	SEP	-	-	-	-	2400	166	1655		
400-8	1/2-Tube	12	2075	143	1717	SEP	-	-	-	2075	143	1717	SEP	-	-	-	-	-	-	-		
400-10	5/8-Tube	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
400-12	3/4-Tube	20	1100	76	1517	II	-	-	-	1100	76	1517	II	-	-	-	-	-	-	-		
400-16	1-Tube	25	1075	74	1853	II	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

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Material Codes: B																						
Pressure Rating & PED Category for 400 Series																						
Valve Size	Port Type	Size (DN)	*BBB				*PPP				*TTB				*EEB				*BTB			
			Pressure Class		PS'DN	Cat.	Pressure Class		PS'DN	Cat.	Pressure Class		PS'DN	Cat.	Pressure Class		PS'DN	Cat.	Pressure Class		PS'DN	Cat.
psi	bar (PS)	psi	bar (PS)	psi			bar (PS)	psi			bar (PS)	psi			bar (PS)	psi			bar (PS)	psi		
400-1	1/8-NPT	6	-	-	-	-	3000	207	1241	SEP	-	-	-	-	-	-	-	-	-	-		
400-2	1/4-NPT	8	-	-	-	-	2725	188	1503	SEP	-	-	-	-	-	-	-	-	-	-		
400-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
400-4	1/4-Tube	8	3000	207	1655	SEP	-	-	-	3000	207	1655	SEP	3000	207	1655	SEP	-	-	-		
400-6	3/8-Tube	10	3000	207	2069	SEP	-	-	-	3000	207	2069	SEP	-	-	-	-	3000	207	2069		
400-8	1/2-Tube	12	2725	188	2255	SEP	-	-	-	2725	188	2255	SEP	-	-	-	-	-	-	-		
400-10	5/8-Tube	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
400-12	3/4-Tube	20	1450	100	2000	II	-	-	-	1450	100	2000	II	-	-	-	-	-	-	-		
400-16	1-Tube	25	1400	97	2414	II	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

derated from 3000

derated from 3000

derated from 3000

Material Codes: T1																				
Pressure Rating & PED Category for H400 Series																				
Valve Size	Port Type	Size (DN)	*BBB				*PPP				*TTB				*BTB					
			Pressure Class		PS'DN	Cat.	Pressure Class		PS'DN	Cat.	Pressure Class		PS'DN	Cat.	Pressure Class		PS'DN	Cat.		
psi	bar (PS)	psi	bar (PS)	psi			bar (PS)	psi			bar (PS)	psi			bar (PS)	psi			bar (PS)	psi
400-1	1/8-NPT	6	-	-	-	-	3575	247	1479	SEP	-	-	-	-	-	-	-	-	-	-
400-2	1/4-NPT	8	-	-	-	-	3700	255	2041	SEP	-	-	-	-	-	-	-	-	-	-
400-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
400-4	1/4-Tube	8	6000	414	3310	SEP	1950	134	1076	SEP	6000	414	3310	SEP	6000	414	3310	SEP	-	-
400-6	3/8-Tube	10	3575	247	2466	SEP	3575	247	2466	SEP	3575	247	2466	SEP	3575	247	2466	SEP	-	-
400-8	1/2-Tube	12	3700	255	3062	SEP	3700	255	3062	SEP	3700	255	3062	SEP	3700	255	3062	SEP	-	-
400-10	5/8-Tube	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
400-12	3/4-Tube	20	1950	134	2690	II	1950	134	2690	II	-	-	-	-	-	-	-	-	-	-
400-16	1-Tube	25	1525	105	2629	II	1525	105	2629	II	-	-	-	-	-	-	-	-	-	-

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SHUTTLE VALVES: 400/H400 SERIES										
Valve Dash #	Material Code: A, A1, B					Material Code: T1				
	*BBB	*PPP	*TTB	*EEB	*BTB	*BBB	*PPP	*TTB	*EEB	*BTB
1	-	SEP	-	-	-	-	SEP	-	-	-
2	-	SEP	-	-	-	-	SEP	-	-	-
3	-	-	-	-	-	-	-	-	-	-
4	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP
6	SEP	SEP	SEP	-	SEP	SEP	SEP	SEP	-	SEP
8	SEP	SEP	SEP	-	SEP	SEP	SEP	SEP	-	SEP
10	-	-	-	-	-	-	-	-	-	-
12	II	II	II	-	-	II	II	-	-	-
16	II	II	-	-	-	II	II	-	-	-

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	-	-