

# Fluid compatibility of CS valves (selection of suitable fluid)

## Fluid and option

Code:

NBR-N EPDM-E  
Silicone-S PTFE-T  
Viton®-V CR-C

\*DC coil only

Body materials		Forged Brass						Investment Casting St. steel 316					
Code		N	S	V	E	T	C	N	S	V	E	T	C
↓ Fluid (Application)	Sealing discs or membranes →	NBR	Silicone	Viton®	EPDM	PTEE	CR	NBR	Silicone	Viton®	EPDM	PTFE	CR
1. Acetone					•	•					•	•	
2. Acetylene dry*	+20°C	•		•		•		•		•		•	
3. Acid-Boric*	+20°C									•		•	
4. Acid-Chrome	<40%,+20°C									•		•	
5. Acid-Citric	<10%,+20°C									•		•	
6. Acid-Hydrochloric	<1%,+20°C									•		•	
7. Acid-Lactic	+20°C									•		•	
8. Acid-Nitric	<10%,+20°C									•		•	
9. Acid-Phosphoric	<10%,+20°C									•		•	
10. Acid-Picric	<10%,+20°C									•		•	
11. Acid-Salicylic	<10%									•		•	
12. Acid-Sulphuric	<20%											•	
13. Acid-Sulphurous	<50%,+20°C											•	
14. Air, hot	+120°C		•	•	•	•			•	•	•	•	
15. Air, unlubricated		•	•	•	•	•	•	•	•	•	•	•	•
16. Alcohol - Amyl alcohol					•	•					•	•	
17. Alcohol - Butyl alcohol (Butanol)				•		•				•		•	
18. Alcohol - Ethyl alcohol (Ethanol)				•	•	•				•	•	•	
19. Alcohol - Methyl alcohol (Methanol)					•	•					•	•	
20. Alcohol - Propyl alcohol (Propanol)				•	•	•				•	•	•	
21. Ammonia, gas (anhydrous)*	+60°C										•	•	•
22. Aniline*												•	
23. Argon				•		•				•		•	
24. Beer				•		•				•		•	
25. Benzine - leaded and unleaded (motor)				•		•				•		•	
26. Butane gas	on request			•		•				•		•	
27. Chloroform	+20°C			•		•				•		•	
28. Cider										•		•	
29. Coffee										•	•	•	
30. Cream										•		•	
31. Cyclohexane										•		•	
32. Ethane, gas	on request												

33. Ethyl Chloride												
34. Ethylene glycol (antifreeze)	•		•	•			•		•	•		
35. Exhaust gas												
36. Fire-resistant, non-aqueous hydraulic fluid	•		•		•	•	•		•		•	•
37. Fire-resistant, oil in water emulsions			•		•				•		•	
38. Fire-resistant, water in oil emulsions			•		•				•		•	
39. Fire-resistant, water/glycol solutions			•		•				•		•	
40. Food products								•	•			
41. Freon 12, gas					•						•	•
42. Freon 22											•	
43. Helium			•		•				•		•	
44. Kerosene JP -1 to JP -3			•		•				•		•	
45. Lemon and orange juice									•		•	
46. Mercury*									•		•	
47. Methane, gas												
48. Milk								•	•			
49. Naphtha			•						•			
50. Natural gas			•		•				•		•	
51. Nitrogen	•		•	•	•		•		•	•	•	
52. Oil - animal oil			•						•			
53. Oil - ASTM oil, 1, 2, 3			•		•				•		•	
54. Oil - diesel oil			•		•				•		•	
55. Oil - eatable oil									•			
56. Oil - extra light, medium			•		•				•		•	
57. Oil - fuel oil			•						•			
58. Oil - greasing oil			•		•				•		•	
59. Oil - heavy			•		•				•		•	
60. Oil - silicon oil			•		•				•		•	
61. Oil - transformer oil			•		•				•		•	
62. Oil - vegetable oil									•			
63. Oxygen - unlubricated valve			•						•		•	
64. Ozone gas/liquid*									•		•	
65. Perchloroethylene			•		•				•		•	
66. Phenol			•						•		•	
67. Potassium sulfate									•		•	
68. Propane gas	•		•		•		•		•		•	
69. Soapy water									•		•	
70. Sodium hydroxide									•	•	•	
71. Toluene (Toluol)			•		•				•		•	
72. Town gas			•						•			
73. Trichloroethylene									•		•	
74. Turpentine									•		•	
75. Water	•	•	•	•	•		•	•	•	•	•	•
76. Water - deionosed/distilled								•	•		•	
77. Water - demineralised									•	•	•	
78. Water - drinkable									•	•	•	
79. Water - hot and steam					•				•		•	
80. Water - oxygenated*									•		•	
81. Water - sea/salt									•		•	
82. Xylene									•		•	