

COMPLETE SOLUTIONS YOU CAN TRUST



Product Catalogue

CHENGFENG FLOW-TECH GROUP

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CHV INTERNATIONAL, INC.
CHENGDU CHENGGAO VALVE CO., LTD.
CHENGDU CHENGFENG VALVE CO., LTD.

CHENGFENG FLOW-TECH GROUP

Chengfeng Flow-Tech Group, headquartered in Chengdu, China, is the leading flow technology company in China. Being a high-tech group specialized in R&D, manufacturing of industrial valves, and being one of the core suppliers to Petro-China, SINOPEC and CNOOC for decades, it has transformed into a multi-dimensional group that is committed to providing the most complete solutions to the oil&gas markets. With industry-leading facilities, innovative technical teams and highly professional engineers, its top-notch services cover various realms in the energy sector – valve manufacturing and maintenance, fluids equipment solutions, flow control solutions and industrial data analytics, etc.

Chengfeng's products have been widely used in the oil&gas pipelines, petrochemical industries, aerospace industry and power stations, etc. Chengfeng's top two brands, CHV and CCFV, have established the nationwide reputation for their quality and service. Now, Chengfeng Flow-Tech Group has begun its new adventure – serving the world market.

CHENGDU CHENGGAO VALVE CO., LTD. (CHV)

CHV was founded in 1993, and has been specialized in the R&D and manufacturing of mid&high end ball valves ever since. CHV offers complete ball valve product lines. Among all the product lines, the High Pressure Large Diameter Fully Welded Ball Valves have captured more than half the domestic fully welded ball valve market. High Temperature Metal-Seated Oxygen Ball Valve and NACE Ball Valve are also leading the domestic market.

CHENGDU CHENGFENG VALVE CO., LTD. (CCFV)

CCFV was founded in 1966. Its main product lines include slab gate valves, expanding gate valves, tri-eccentric butterfly valves, check valves, globe valves and plug valves, etc. CCFV is leading the domestic slab gate valve market, taking up 70% of the oil transportation and storage sector.

CHV INTERNATIONAL, INC.

CHV International, Inc. is the newest branch of Chengfeng Flow-Tech Group. Based in Houston, Texas, U.S.A, its mission is to shorten the distance between the Group and the international market by providing faster response and better service to our customers around the globe.

CERTIFICATION

Chengfeng Flow-Tech Group's quality program is fully compliant with the industry's most stringent standards. The group holds all major certifications, including but not limited to API 6D, ISO 9001, ISO 14001, OHS 18001, CE, API 6FA, API 607 fire safety inspection certificate.



Technical Innovation

Technical innovation has always been the impetus to Chengfeng. With a technical team consisted of more than 50 experienced professionals and researchers, cutting-edge industrial softwares, a research center that is dedicated to product innovation and complete solution customization, and by working in association with some of the renowned universities and R&D institutes, Chengfeng has been continuously improving its product design and production technology, to offer more reliable quality and meet more demanding requirements while saving cost for our customers.

Manufacturing

The latest technologies are widely applied at Chengfeng in its manufacturing facilities, including a large number of CNC machining centers and other CNC equipments. All manufacturing is conducted under ISO 9001 certified Quality Management System. Products are manufactured strictly in compliance with applicable industry standards.



Quality Assurance

Chengfeng has complete quality inspection systems. Our laboratory has advanced equipments for chemical components analysis, mechanical property analysis, impact test for low-temperature, UT, MT, PT and RT, and spectrometer, micro-leakage meter for helium, carbon and sulfur analysis, etc. A brand new dynamic flow test system also has been installed.

Product Lifecycle Management (PLM)

PLM system is being implemented in Chengfeng. With PLM system, we will provide more transparency on the supplier management, product manufacturing, order status and product performance analysis to our customers. Also, we will be able to offer more value-added services to guarantee the best performance by our valves.



Product Picture				
Brand	CHV®	CHV®	CHV®	CHV®
Series	T10	T11	T20	T23
Type	Forged Steel Split-Body Trunnion Ball Valve	Cast Steel Split-Body Trunnion Ball Valve	Forged Steel Fully Welded Trunnion Ball Valve	Forged Steel Direct-Buried Trunnion Ball Valve
Service Areas	Pipeline, Oil & Gas Service-Double Block & Bleed			
Design Standards	API 6D/API 608	API 6D/API 608	API 6D	API 6D
Design Style	2-Piece or 3-Piece, Bolted Body	2-Piece or 3-Piece, Bolted Body	2-Piece or 3-Piece, Welded Body	2-Piece or 3-Piece, Welded Body
Sizes	NPS 1~60	NPS 1~48	NPS 1/2~60	NPS 1/2~60
Pressure Range	ASME CL150~2500	ASME CL150~2500	ASME CL150~1500	ASME CL150~1500
Port	Full Port or Reduced Port	Full Port or Reduced Port	Full Port or Reduced Port	Full Port or Reduced Port
Body Materials	Forged Carbon Steel, Low Temp. C.S. or Stainless Steel	Cast Carbon Steel, Low Temp. C.S. or Stainless Steel	Forged Carbon Steel, Low Temp. C.S. or Stainless Steel	Forged Carbon Steel, Low Temp. C.S. or Stainless Steel
Trim Materials	C.S+ENP or Stainless Steel	C.S+ENP or Stainless Steel	C.S+ENP or Stainless Steel	C.S+ENP or Stainless Steel
Seat Insert/Seat Seal Materials	Viton/Viton, HNBR/HNBR, PTFE/Viton, PEEK/Viton or NYLON/Viton	Viton/Viton, HNBR/HNBR, PTFE/Viton, PEEK/Viton or NYLON/Viton	Viton/Viton, HNBR/HNBR, PTFE/Viton, PEEK/Viton or NYLON/Viton	Viton/Viton, HNBR/HNBR, PTFE/Viton, PEEK/Viton or NYLON/Viton
Stem Materials	Alloy Steel+ENP or Stainless Steel	Alloy Steel+ENP or Stainless Steel	Alloy Steel+ENP or Stainless Steel	Alloy Steel+ENP or Stainless Steel
Actuator Pad	ISO 5211	ISO 5211	ISO 5211	ISO 5211
End Connections	Flanged, Weld Ends	Flanged Ends	Flanged, Weld Ends	Flanged, Weld Ends
Pressure Test	API 6D or API 598	API 6D or API 598	API 6D or API 598	API 6D or API 598
Compliance Standards	API 607/6FA Fire Safe, ASME B16.5, B16.10, B16.25, B16.34, NACE Compliant	API 607/6FA Fire Safe, ASME B16.5, B16.10, B16.34, NACE Compliant	API 607/6FA Fire Safe, ASME B16.5, B16.10, B16.25, B16.34, NACE Compliant	API 607/6FA Fire Safe, ASME B16.5, B16.10, B16.25, B16.34, NACE Compliant
Catalog #	CHV-TB	CHV-TB	CHV-TB	CHV-TB

Product Picture				
Brand	CHV®	CHV®	CHV®	CHV®
Series	T70	T71	F10	F11
Type	Cast Steel Top Entry Trunnion Ball Valve	Forged Steel Top Entry Trunnion Ball Valve	Cast Steel Split-Body Floating Ball Valve	Forged Steel Split-Body Floating Ball Valve
Service Areas	Pipeline, Oil & Gas Service-Double Block & Bleed		Oil, Gas & General Industrial Service	
Design Standards	API 6D/Manufacturer's Standard	API 6D/Manufacturer's Standard	ISO 17292	ISO 17292
Design Style	One Piece Body	One Piece Body	One Piece or 2-Piece, Bolted Body	2-Piece or 3-Piece, Bolted Body
Sizes	NPS 2~48	NPS 2~48	NPS 1/2~12	NPS 1/2~12
Pressure Range	ASME CL150~1500	ASME CL150~1500	ASME CL150~600	ASME CL150~600
Port	Full Port or Reduced Port	Full Port or Reduced Port	Full Port or Reduced Port	Full Port or Reduced Port
Body Materials	Cast Carbon Steel, Low Temp. C.S. or Stainless Steel	Forged Carbon Steel, Low Temp. C.S. or Stainless Steel	Cast Carbon Steel, Low Temp. C.S. or Stainless Steel	Forged Carbon Steel, Low Temp. C.S. or Stainless Steel
Trim Materials	C.S.+ENP or Stainless Steel	C.S.+ENP or Stainless Steel	Stainless Steel	Stainless Steel
Seat Insert/Seat Seal Materials	Viton/Viton, HNBR/ HNBR, PTFE/Viton, PEEK/Viton or NYLON/Viton	Viton/Viton, HNBR/ HNBR, PTFE/Viton, PEEK/Viton or NYLON/Viton	PTFE/PTFE or PEEK/PEEK	PTFE/PTFE or PEEK/PEEK
Stem Materials	Alloy Steel+ENP or Stainless Steel			
Actuator Pad	ISO 5211	ISO 5211	ISO 5211	ISO 5211
End Connections	Flanged, Weld Ends	Flanged, Weld Ends	Flanged, Weld Ends	Flanged, Weld Ends
Pressure Test	API 6D or API 598	API 6D or API 598	ISO 17292 or API 598	ISO 17292 or API 598
Compliance Standards	API 607/6FA Fire Safe, ASME B16.5, B16.10, B16.25, B16.34, NACE Compliant	API 607/6FA Fire Safe, ASME B16.5, B16.10, B16.25, B16.34, NACE Compliant	API 607/6FA Fire Safe, ASME B16.5, B16.10, B16.25, B16.34, NACE Compliant	API 607/6FA Fire Safe, ASME B16.5, B16.10, B16.25, B16.34, NACE Compliant
Catalog #	CHV-TB	CHV-TB	CHV-FB	CHV-FB

Product Picture				
Brand	CHV®	CHV®	CHV®	CHV®
Series	F30	F40	HY	L
Type	Cast Steel One-Piece Floating Ball Valve	Cast Steel Top Entry Floating Ball Valve	Metal-Seated Ball Valves	Cryogenic Ball Valves (Top Entry, Side Entry, Trunnion or Floating Ball)
Service Areas	Oil, Gas & General Industrial Service		General Industrial Service	Pipeline, LNG, Ethylene & Air Separation Service
Design Standards	ISO 17292	ISO 17292	API 6D/API 608/ISO 17292	BS 6364
Design Style	One Piece Body	One Piece Body	2-Piece or 3-Piece, Bolted Body	One Piece, 2-Piece or 3-Piece, Bolted Body
Sizes	NPS 1/2~12	NPS 2~12	NPS 1/2~40	NPS 1/2~28
Pressure Range	ASME CL150~300	ASME CL150~600	ASME CL150~1500	ASME CL150~1500
Port	Reduced Port	Full Port or Reduced Port	Full Port or Reduced Port	Full Port or Reduced Port
Body Materials	Cast Carbon Steel, Low Temp C.S. or Stainless Steel	Cast Carbon Steel, Low Temp C.S. or Stainless Steel	Cast Carbon Steel, Forged Carbon Steel or Stainless Steel	Stainless Steel
Trim Materials	Stainless Steel	Stainless Steel	S.S+ST, S.S+T.C, S.S+Ni60/55	Stainless Steel
Seat Insert/Seat Seal Materials	PTFE/PTFE or PEEK/PEEK	PTFE/PTFE or PEEK/PEEK	Metal-to-Metal/Graphite	PCTFE/Lip-Seal or Metal-to-Metal/Lip-Seal
Stem Materials	Alloy Steel+ENP or Stainless Steel	Alloy Steel+ENP or Stainless Steel	Alloy Steel+ENP or Stainless Steel	Stainless Steel
Actuator Pad	ISO 5211	ISO 5211	ISO 5211	ISO 5211
End Connections	Flanged, Weld Ends	Flanged, Weld Ends	Flanged, Weld Ends	Flanged, Weld Ends
Pressure Test	ISO 17292 or API 598	ISO 17292 or API 598	API 6D, ISO 17292 or API 598	BS 6364
Compliance Standards	API 607/6FA Fire Safe, ASME B16.5, B16.10, B16.25, B16.34, NACE Compliant	API 607/6FA Fire Safe, ASME B16.5, B16.10, B16.25, B16.34, NACE Compliant	API 6FA Fire Safe, ASME B16.5, B16.10, B16.25, B16.34, B16.104, NACE Compliant	API 607/6FA Fire Safe, ASME B16.5, B16.10, B16.25, B16.34, MSS SP-134, NACE Compliant
Catalog #	CHV-FB	CHV-FB	CHV-MS	CHV-CB

Product Picture				
Brand	CHV®	CHV®	CHV®	CCFV®
Series	T90	HO	T50	Z10
Type	Double Block And Bleed Trunnion Ball Valve	Oxygen Ball Valves	Fully Welded Trunnion Ball Valve For Urban Gas And Skid Mount	Cast Steel Slab Gate Valve
Service Areas	Pipeline, Oil & Gas Service-Double Block & Bleed	Oxygen & Hydrogen Industrial Service	Pipeline, Oil & Gas Service-Double Block & Bleed	
Design Standards	API 6D/API 608	API 6D/API 608/ ISO 17292	API 6D	API 6D
Design Style	3-Piece, Bolted Body	2-Piece or 3-Piece, Bolted Body	3-Piece, Welded Body	Through Conduit, Soft Seal
Sizes	NPS 2~48	NPS 1/2~24	NPS 6~32	NPS 1~60
Pressure Range	ASME CL150~2500	ASME CL150~1500	ASME CL150~600	ASME CL150~2500
Port	Full Port or Reduced Port	Full Port or Reduced Port	Full Port or Reduced Port	Full Port
Body Materials	Forged Carbon Steel, Low Temp. C.S. or Stainless Steel	Inconel 625, Incoloy 825 or C.S.+Inconel 718	Carbon Steel, Low Temp. C.S.	Cast Carbon Steel, Low Temp C.S. or Stainless Steel
Trim Materials	C.S.+ENP or Stainless Steel	C.S.+Inconel 718, S.S.+Ni60/55	C.S.+ENP or Stainless Steel	C.S.+ENP or Stainless Steel
Seat Insert/Seat Seal Materials	Viton/Viton, HNBR/HNBR, PTFE/Viton, PEEK/Viton or NYLON/Viton	Metal-to-Metal/ Graphite	Viton/Viton, HNBR/HNBR, PTFE/Viton, PEEK/Viton or NYLON/Viton	PTFE/HNBR, PEEK/Viton or Metal-to-Metal/Viton
Stem Materials	Alloy Steel+ENP or Stainless Steel	Stainless Steel	Alloy Steel+ENP or Stainless Steel	Stainless Steel or Nickel Alloy
Actuator Pad	ISO 5211	ISO 5211	ISO 5211	ISO 5210
End Connections	Flanged, Weld Ends	Flanged, Weld Ends	Flanged, Weld Ends	Flanged, Weld Ends
Pressure Test	API 6D or API 598	API 6D, ISO 17292 or API 598	API 6D or API 598	API 6D, API 598
Compliance Standards	API 607/6FA Fire Safe, ASME B16.5, B16.10, B16.25, B16.34, NACE Compliant	API 6FA Fire Safe ASME B16.5, B16.10, B16.25, B16.34, B16.104, NACE Compliant	API 607/6FA Fire Safe, ASME B16.5, B16.10, B16.25, B16.34, NACE Compliant	API 6FA Fire Safe, ASME B16.5, B16.10, B16.25, B16.34, NACE Compliant
Catalog #	CHV-DBB	CHV-HO	CHV-PW	CCFV-SG

Product Picture				
Brand	CCFV®	CCFV®	CCFV®	CCFV®
Series	Z11	Z12	Z20	C
Type	Compact Slab Gate Valve	Forged steel Slab Gate Valve	Expanding Gate Valve	Check Valves
Service Areas	Pipeline, Oil & Gas Service-Double Block & Bleed			Oil, Gas, Water & General Industrial Service
Design Standards	API 6D	API 6D	API 6D	BS 1868/API 594
Design Style	Through Conduit, Soft Seal	Through Conduit, Hard Seal	Through Conduit, Hard Seal	One Piece Body
Sizes	NPS 1~48	NPS 1~60	NPS 1/2~32	NPS 2~60
Pressure Range	ASME CL150	ASME CL300~2500	ASME CL150~600	ASME CL150~2500
Port	Full Port	Full Port	Full Port	Normal
Body Materials	Carbon Steel, Low Temp. C.S.	Forged Carbon Steel, Low Temp. C.S. or Stainless Steel	Cast Carbon Steel, Low Temp C.S. or Stainless Steel	Cast Carbon Steel, Low Temp C.S. or Stainless Steel
Trim Materials	C.S+ENP or Stainless Steel	C.S+ENP or Stainless Steel	C.S+ENP or Stainless Steel	C.S+ENP or Stainless Steel
Seat Insert/Seat Seal Materials	PTFE/HNBR, PEEK/Viton or Metal-to-Metal/Viton			
Stem Materials	Stainless Steel	Stainless Steel or Nickel Alloy	Stainless Steel or Nickel Alloy	NA
Actuator Pad	ISO 5210	ISO 5210	ISO 5210	NA
End Connections	Flanged Ends	Flanged, Weld Ends	Flanged, Weld Ends	Flanged, Weld Ends
Pressure Test	API 6D, API 598	API 6D, API 598	API 6D, API 598	BS 5146 or API 598
Compliance Standards	API 6FA Fire Safe, ASME B16.5, B16.34, NACE Compliant	API 6FA Fire Safe, ASME B16.5, B16.10, B16.25, B16.34, NACE Compliant	API 6FA Fire Safe, ASME B16.5, B16.10, B16.25, B16.34, NACE Compliant	API 6FA Fire Safe, ASME B16.5, B16.10, B16.34, B16.25, NACE Compliant
Catalog #	CCFV-SG	CCFV-SG	CCFV-EG	CCFV-GGC

Product Picture				
Brand	CCFV®	CCFV®	CCFV®	CCFV®
Series	ZW	J3	X30	X10
Type	Wedge Gate Valve	Globe Valve	Cast Steel General Valve	Cast Steel Lubricated Plug Valves Pressure Balanced Type
Service Areas	Oil, Gas, Water & General Industrial Service		Oil, Gas & General Industrial Service	Pipeline, Oil & Gas Service
Design Standards	API 600/API 602	BS 1873/API 623	API 6D/API 599	API 6D/API 599
Design Style	One Piece Body	One Piece Body	One Piece Body	One Piece Body
Sizes	NPS 1/2~60	NPS 1/2~24	NPS 1~24	NPS 1~48
Pressure Range	ASME CL150~2500	ASME CL150~2500	ASME CL150~900	ASME CL150~2500
Port	Normal	Normal	Full Port	Regular Pattern or Venturi Pattern
Body Materials	Cast Carbon Steel, Low Temp C.S. or Stainless Steel	Cast Carbon Steel, Low Temp C.S. or Stainless Steel	Cast Carbon Steel, Low Temp C.S. or Stainless Steel	Cast Carbon Steel, Low Temp C.S. or Stainless Steel
Trim Materials	C.S.+ENP or Stainless Steel	C.S.+ENP or Stainless Steel	C.S.+ENP or Stainless Steel	C.S.+ENP or Stainless Steel
Seat Insert/Seat Seal Materials	Metal-to-Metal	PTFE/HNBR, PEEK/ Viton or Metal-to-Metal/Viton	PTFE/HNBR, PEEK/ Viton or Metal-to-Metal/Viton	Lubricated
Stem Materials	Stainless Steel or Nickel Alloy	Stainless Steel or Nickel Alloy	Stainless Steel or Nickel Alloy	Alloy Steel+ENP or Stainless Steel
Actuator Pad	ISO 5210	ISO 5210	ISO 5210	ISO 5211
End Connections	Flanged, Weld Ends	Flanged, Weld Ends	Flanged, Weld Ends	Flanged, Weld Ends
Pressure Test	API 598	BS 5146 or API 598	API 6D or API 598	API 6D or API 598
Compliance Standards	API 6FA Fire Safe, ASME B16.5, B16.10, B16.34, B16.25, NACE Compliant	API 6FA Fire Safe, ASME B16.5, B16.10, B16.34, B16.25, NACE Compliant	API 6FA Fire Safe, ASME B16.5, B16.10, B16.34, B16.25, NACE Compliant	API 6FA Fire Safe, ASME B16.5, B16.10, B16.34, B16.25, NACE Compliant
Catalog #	CCFV-GGC	CCFV-GGC	CCFV-GV	CCFV-PL

Product Picture				
Brand	CHV®	CHV®	CCFV®	CHV®
Series	Q10	Q20	D10	F21
Type	Cast Steel Power Sealing Ball Valve	Cast Steel Expanding Ball Valve	Cast Steel Butterfly Valves	Cast Steel Jacketed Trunnion Ball Valve
Service Areas	Pipeline, Oil & Gas Service		Oil, Gas water & General Industrial	General Industrial Service
Design Standards	API 6D	API 6D	API 609	Manufacturer's Standard
Design Style	One Piece Body	One Piece Body	Hard Seal & Soft Seal	One Piece Body
Sizes	NPS 1~24	NPS 1~24	NPS 4~12	NPS 3/4~24
Pressure Range	ASME CL150~2500	ASME CL150~900	ASME CL150~600	ASME CL150~300
Port	Full Port or Reduced Port	Full Port or Reduced Port	Normal	Full Port or Reduced Port
Body Materials	Cast Carbon Steel, Low Temp C.S. or Stainless Steel	Cast Carbon Steel, Low Temp C.S. or Stainless Steel	Cast Carbon Steel, Low Temp C.S. or Stainless Steel	Cast Carbon Steel or Stainless Steel
Trim Materials	C.S.+ENP or Stainless Steel	C.S.+ENP or Stainless Steel	Cast Carbon Steel, Low Temp C.S. or Stainless Steel	C.S.+ENP or Stainless Steel
Seat Insert/Seat Seal Materials	Viton/Viton, Metal-to-Metal/Viton	Viton/Viton, Metal-to-Metal/Viton	PTFE, PEEK or Metal-to-Metal	PTFE/PTFE, Viton/Viton or PEEK/PEEK
Stem Materials	Alloy Steel+QPQ or Stainless Steel	Alloy Steel+ENP or Stainless Steel	Alloy Steel+ENP or Stainless Steel	Alloy Steel+ENP or Stainless Steel
Actuator Pad	ISO 5210	ISO 5210	ISO 5211	ISO 5211
End Connections	Flanged, Weld Ends	Flanged, Weld Ends	Flanged Ends, Wafer-type	Flanged Ends
Pressure Test	API 6D or API 598	API 6D or API 598	API 598 or API 609	API 6D or API 598
Compliance Standards	API 6FA Fire Safe, ASME B16.5, B16.10, B16.25, B16.34, NACE Compliant	API 6FA Fire Safe, ASME B16.5, B16.10, B16.25, B16.34, NACE Compliant	API 6FA Fire Safe ASME B16.5, B16.10, B16.34, NACE Compliant	API 607/6FA Fire Safe, ASME B16.5, B16.10, B16.25, B16.34, NACE Compliant
Catalog #	CHV-PSB	CHV-EB	CCFV-TOB	CHV-JV

Product Picture				
Brand	CHV®	CHV®	CHV®	CHV®
Series	HS	W	T8	CP
Type	Severe Service Ball Valves	3-way/4-way Ball Valves	Pig Valves	Pipeline and Piping Check Valves
Service Areas	Oil, Steam & Severe Industrial Service	General Industrial Service	Pipeline, Oil & Gas Service	Pipeline, Oil & Gas Service
Design Standards	API 608/ASME B16.34	Manufacturer's Standard	API 6D/ASME B16.34	API 6D
Design Style	2-Piece or 3-Piece, Bolted Body	4-Piece or 5-Piece, Bolted Body	One Piece, 3-Piece, Bolted Body	One Piece Body
Sizes	NPS 1/2~24	NPS 1/2~36	NPS 2~56	NPS 2~60
Pressure Range	ASME CL150~4500	ASME CL150~900	ASME CL150~1500	ASME CL150~2500
Port	Full Port or Reduced Port	L/T/Y/X Type	Full Port	Normal
Body Materials	Alloy Steel or Stainless Steel	Cast Carbon Steel, Forged Carbon Steel, Low Temp. C.S. or Stainless Steel	Carbon Steel, Low Temp C.S. or Stainless Steel	Cast Carbon Steel, Forged Carbon Steel, Low Temp C.S. or Stainless Steel
Trim Materials	Alloy Steel or Stainless Steel	Stainless Steel	C.S+ENP or Stainless Steel	C.S+ENP or Stainless Steel
Seat Insert/Seat Seal Materials	Metal-to-Metal/ Graphite	PTFE/PTFE or PTFE/Viton or Metal-to-Metal	Viton/Viton, HNBR/ HNBR, PTFE/Viton or PEEK/Viton	PTFE/Viton, PEEK/ Viton, or Metal-to-Metal/Graphite
Stem Materials	Alloy Steel+ENP or Stainless Steel	Alloy Steel+ENP or Stainless Steel	Alloy Steel+ENP or Stainless Steel	NA
Actuator Pad	ISO 5211	ISO 5211	ISO 5211	NA
End Connections	Flanged, Weld, Socket Weld Ends	Flanged Ends	Flanged, Weld Ends	Flanged, Weld Ends
Pressure Test	API 598	API 6D, ISO 17292 or API 598	API 6D	API 6D or API 598
Compliance Standards	API 6FA Fire Safe, ASME B16.5, B16.10, B16.11, B16.25, NACE Compliant	API 607/6FA Fire Safe, ASME B16.5, B16.10, B16.34, NACE Compliant	API 607/6FA Fire Safe, ASME B16.5, B16.25, NACE Compliant	API 6FA Fire Safe, ASME B16.5, B16.10, B16.34, B16.25, NACE Compliant
Catalog #	CHV-HS	CHV-WB	CHV-PV	CHV-CV