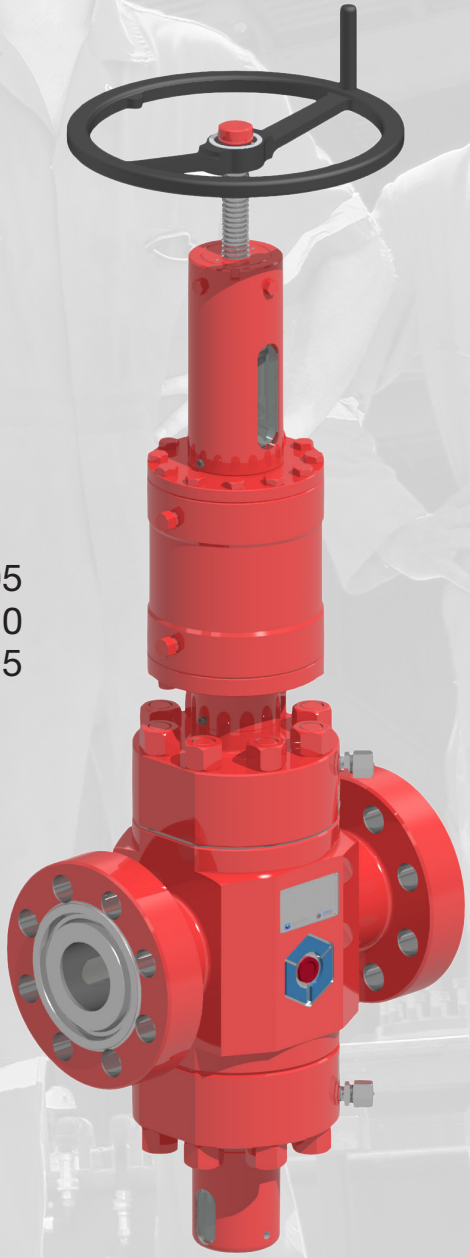
CANSCO™
WELL CONTROL

DVH
HYDRAULIC GATE VALVE

DVH0305
DVH0310
DVH0315



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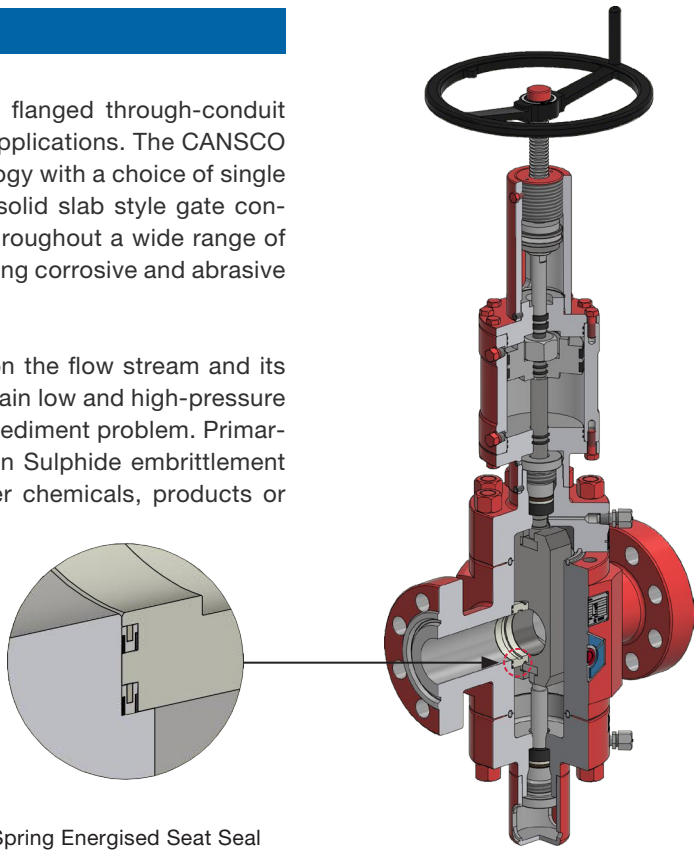
FEATURES AND BENEFITS

The CANSCO DVH series hydraulic gate valve is a flanged through-conduit isolation valve built for the most demanding drilling applications. The CANSCO DVH combines the CANSCO DVM gate valve technology with a choice of single or double acting hydraulic actuators. Its one-piece solid slab style gate consistently delivers outstanding sealing performance throughout a wide range of conditions, bore sizes, and working pressures, including corrosive and abrasive fluid environments.

The slab gate design effects a metal to metal seal on the flow stream and its simple, straightforward design makes it easy to maintain low and high-pressure sealing situations where contaminates could pose a sediment problem. Primarily for sour gas and oil where resistance to Hydrogen Sulphide embrittlement is required, the DVH series is also suitable for other chemicals, products or hydrocarbons when H2S is present.

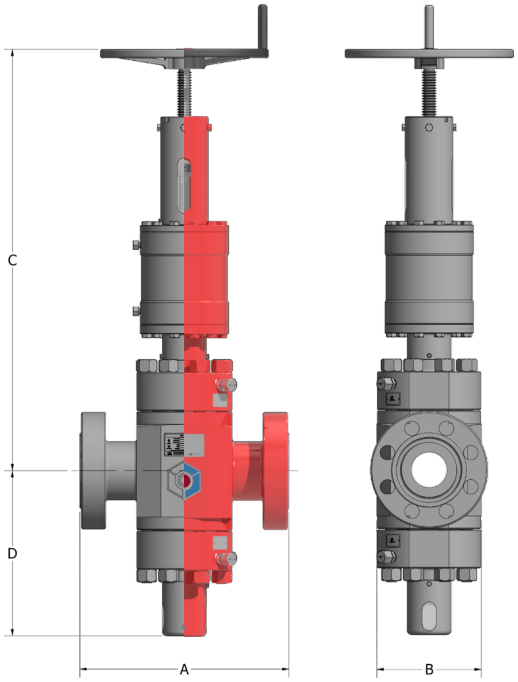
The DVH is fitted with a balancing stem to operate together with the hydraulic actuator to provide reliable control through the entire stroke of the valve. In the event of loss of hydraulic power the DVH fitted with a double acting hydraulic actuator will remain in position.



Spring Energised Seat Seal

Other Features of the DVH Hydraulic Gate Valve:

- Forged body and bonnet
- Full bore
- Bi-directional sealing design
- Positive Metal to Metal sealing (gate to seat and seat to body)
- Spring energised stem and seat seals
- Balanced stem and stem backseat
- Compliant with NACE MR-01-75 requirements
- API 6A Monogrammed



DVH - HYDRAULIC GATE VALVE SPECIFICATIONS

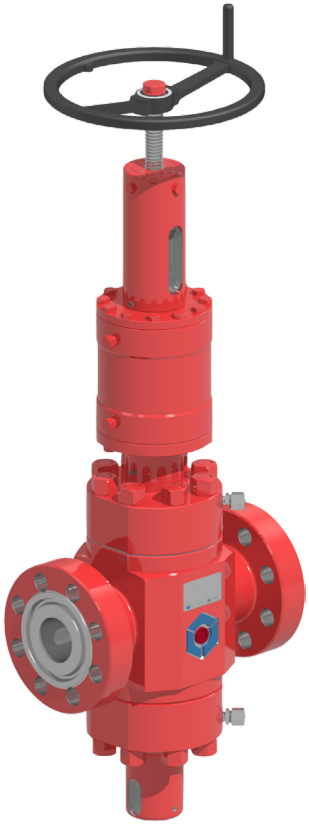
Nominal Size (in)	Working Pressure (psi)	API Ring Gasket	Dimensions in [mm]				Weight lbs [kg]
			A	B	C	D	
3-1/8	5,000	R-35	18.62 [472.9]	9.29 [236]	38.03 [966]	14.76 [375]	562.18 [255]
3-1/16	10,000	BX-154	24.37 [619]	9.84 [250]	40.47 [1028]	14.25 [362]	672.41 [305]
3-1/16	15,000	BX-154	23.54 [598]	11.73 [298]	42.56 [1081]	16.14 [410]	981.06 [445]

HYDRAULIC GATE VALVE TECHNICAL SPECIFICATION

Valve Type	Bomco, Cansco DVH - Hydraulic Operation
Valve Description	Through conduit isolation valve. Forged steel body and bonnet. Slab gate, bi-directional sealing design. Positive Metal to Metal Sealing (gate to seat and seat to body). Spring energised stem and seat seals, balanced stem and stem backseat. Double acting hydraulic actuators.
Valve Design	API 6A 21st Edition and NACE MR-01-75
Valve Specification	PU (5-10K) / PX (15K), EE-NL (5-10K) / EE-360 (15K), PSL 3G, PR 2

SIZE			
Model	DVH0305	DVH0310	DVH0315
End Connection Size	3-1/8" 5K, R-35 / RX-35	3-1/16" 10K, BX-154	3-1/16" 15K, BX-154
End Connection Type	API Type 6B Flange	API Type 6BX Flange	API Type 6BX Flange
Bore Diameter	3.0125"	3.063"	3.063"
Face to Face Dimension	18.62"	24.37"	23.54"
Approximate Weight	255kg	305kg	445kg

MATERIAL	
Body Material	Forged AISI 4130
Bonnet Material	Forged AISI 4130
Body and Bonnet RTJ's	316 SS Inlay
Studs	ASTM A193 GR-B7, Zinc Coated
Nuts	ASTM A194 GR-2H, Zinc Coated
Grease	Molybdenum Disulphide (MOS2) Grease



TRIM		
API Material Class		EE
NACE Limits	P-U	No Limits (EE-NL) *
	P-X	360 (EE-360) **
Valve Trim Material	Gate	AISI 410 + Ni60
	Seat	AISI 410 + Co12M Cobalt Based Alloy
	Stem	Alloy 718
Valve Trim Packing Material		PTFE c/w Spring Energiser
Valve Trim Design		Through Conduit with Metal to Metal Seal

OPERATING PARAMETERS			
Working Pressure	5,000psi	10,000psi	15,000psi
Test Pressure	1.5 x Rated WP	1.5 x Rated WP	1.5 x Rated WP
API Temperature Range	P to U	P to U	P to X
	(-20°F to + 250°F)	(-20°F to + 250°F)	(-20°F to + 350°F)
API PR	2	2	2
API PSL	3G	3G	3G

* Material Class EE is suitable for sour service and has no limit (designated 'NL') on the exposure to H2S as defined by API 6A and NACE MR-01-75.
** Material Class EE is suitable for sour service to a limit of 360psi partial pressure (designated '360') on the exposure to H2S, as defined by API 6A and NACE MR-01-75, for temperatures over 275°F up to 350°F. As temperatures of 275°F and below no limit (NL) is placed on the exposure to H2S.

INTEGRITY
ON EVERY WELL

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