

Master Flo Part Number / FMC Part Number:	42001-056 / 100030923	
Valve Style:	P4-10K HRV Choke	
Valve Connections:	Inlet Connection - Studded Profile	Outlet Connection - Flange Profile
	API 5 1/8"-10,000 BX169	API 5 1/8"-10,000 BX169
Valve Pressure Rating:	10,000 psig	
Valve Temperature Classification:	API 6A P-U (-20° to 250°F)	
Material Class:	API HH-NL Body HH-NL Insert	
Materials:	Body:	ASTM A182 F22 c/w Inconel 625 Cladding on Process-Wetted Surfaces
	Bonnet:	ASTM A182 F22 Bonnet Carrier with Inconel 718 Process Wetted Insert
	Connector:	AISI 4130 Vertical (Top) Access with API 17D Class 4 Bucket and Interface ROV Interface Orientation from Choke Body Inlet: 135°
	Connector Stem:	Teflon Coated UNS S17400
	Canister:	Inconel 718
	Flow Trim:	Cage: 5CB Tungsten Carbide Seat: Tungsten Carbide / Inconel 625 Carrier
		External Sleeve: 5CB Tungsten Carbide / Inconel 718 Carrier
	Retaining Sleeve:	Inconel 625
	Stem:	Tungsten Carbide Coated Inconel 718 / AISI 4140
	Balance Sleeve:	Inconel 625
	Seal Material:	Body to Bonnet: Inconel 718 Bean Seal: Inconel 718 Other: PTFE
Valve Capacity:	Cv = 162 Nominal	
Trim Configuration:	External Sleeve / Internal Cage. Equal Percent Flow Characteristic.	
Seating Class:	ANSI Class V	
Stem Travel Open – Close:	3.35" Nominal	
Number of Turns Close – Open:	20 Nominal	
No. of Steps Open – Close:	200 Nominal	
Running Tool Interface:	Master Flo CIRT	Manufacturing / QA Standard: ISO 9001 / API 6A and 17D PSL 3G



Note: For Illustration Purpose Only

Actuator Style:

Model SL Double Acting Hydraulic Rotary Stepping

Hydraulic Circuit:

Operating Pressure:

Test Pressure:

3000 psig

4950 psig

Min: 2700 psig/Max: 3300 psig

Temperature Range:

35 to 150°F

Rated Working Depth:

10,000 feet

Fluid Compatibility:

MacDermid Oceanic HW525/HW540/443, Castrol Transaqua H.T., Brayco Micronic SV/B, Pelagic 100

Hydraulic Cylinder:

Double Acting

Cleanliness Level:

Flushed to the Requirements of SAE AS 4059 Class 6B-F

Hydraulic Connections:

3/8" Stainless Steel Swagelok Tube Fittings and 3/8" AISI 316 Stainless Steel Tubing

Customer Hydraulic Interface Located on Choke Body:

3/8" SAE Capped Tube Fitting (2 places)

Operating Cylinder Construction:

Stainless Steel

Actuator Housing:

Housing Pressure Rating:

500 psig Above External Pressure

Housing Test Pressure:

500 psig

Pressure Isolation:

Isolation from Main Valve Bore on Stem Area. Area Pressure-Relief @ 25 psig

Actuator Oil:

Dielectric Gear Oil

Actuator Housing Material:

ASTM A352 LCC

R.O.V. Override Drive:

Location: / Color:

Top / Orange

Drive:

API 17H Bucket with Class 4 Drive Interface

Override Drive Ratio:

1:1

Maximum ROV Input Torque:

600 ft-lbs

Local Position Indication:

Location:

On the Same Plane as R.O.V. Override Drive

Indicator Plate:

Lamacoid

Scale:

1" High Black Lettering on Yellow Background Marked in Percent of Stem Travel

Electrical Connector:

Tronic BROV-10-G001-BQ-MC04P / Master Flo Part Number 01287-009



Note: For Illustration Purpose Only



115891-D02-01-0

Position Transmitter-Linear Variable Differential Transformer:

Supply:	12 to 36 Volts DC
Output:	4-20 mA c/w CANBus 12V with CAN 401
Output Load:	1,250 Ohms Maximum @ 36 VDC (Max RL = ((Supply Voltage-11)/0.02))
Output Change:	Relative to Supply Change @ Less Than 0.01 mA/Volt
Non-Linearity:	Better Than +/- 0.5% of Full Scale

Actuator Steps:

Actuator Step:	36 Degree Rotation Per Step
Hydraulic Oil Consumption:	1.37 in ³ (Per Step)

Actuator Output Torque:

3,000 psig Hydraulic Pressure:	317 ft-lbs
--------------------------------	------------

Actuator Pressure/Volume Consumption:

Internal Accumulator Bladder	29 in ³ . Volume
Fluid Displacement:	5.0 in ³ (Typical Master Flo P4 Subsea Choke from Close to 100% Open)