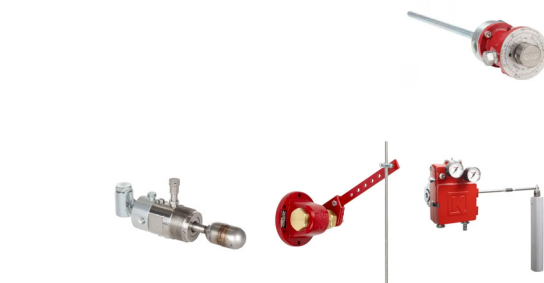


KIMRAY INC. PRODUCT DESCRIPTION GUIDE



- 2 REGULATORS**
Back Pressure, Pressure Reducing & Differential Pressure



- 3 VALVES**
High Pressure Control Valves
- 4** Low Pressure Control Valves
- 4** Weight Operated Dump Valves
- 5** Liquid Dump Valves



- 5 TEMPERATURE CONTROLLERS**
Thermostats, Separable Sockets, & Pilot Guards



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REGULATORS BACK PRESSURE, PRESSURE REDUCING & DIFFERENTIAL PRESSURE



CONNECTION SIZE

PSIG MAX. WORKING PRESSURE

(NPT and grooved connections, multiply by 10)
(RF connections: 18=250 psig; 27=285 psig)

PRODUCT FAMILY (i.e. Regulator)

230 SGT BP5-NV-D REG S6 HSN

CONNECTION		PRODUCT		BODY STYLE		SERVICE		TRIM		BODY MATERIAL		TRIM MATERIAL		OTHER MODIFIERS	
F	Flanged (150 RF)	G	Pilot Regulator (Gas Valve)	T	Through	BP	Back Pressure	5	Reduced Port	D	Cast Ductile	S6	Stainless Steel	W/125# SPR	125 lb. Spring
G	Grooved					LPBOS	Low Pressure Back Pressure Outside Supply	[blank]	Full Port (Standard)	S	Steel	[blank]	Standard Materials	NONLUBE LWR W/NONLUBE	Non Lube Lower Housing
S	Female NPT (Screwed)					BPOS	Back Pressure Outside Supply							TEFSEAT	Teflon Seat
						BP-NV	Back Pressure Non-Vent							KC	Kimcoat (Z-Pex)
						BPV	Back Pressure to Vacuum							W/163T W/164T W/165T W/166T W/167T	Teflon Valve Seat (3" only)
						OBPV	Low Pressure Back Pressure to Vacuum								
						PR	Pressure Reducing								
						PRB	Pressure Reducing Balanced								
						PRB-NV	Pressure Reducing Balanced Non-Vent								
						PROS	Pressure Reducing Outside Supply								
						PR-NV	Pressure Reducing Non-Vent								
						OPR	Low Pressure Pressure Reducing								
						OPRV	Low Pressure Pressure Reducing to Vacuum								
						PD	Pressure Differential								

GENERAL PRODUCT MODIFIERS	
V	Viton Elastomers
HSN	HSN Elastomers
AF	Aflas Elastomers
MTR	Material Test Report
NC	NACE Certification
HY	Hydrostatic Testing

Example descriptions for demonstration purposes and may not be available. Parts of descriptions and availability of general product modifiers varies by product.

VALVES HIGH PRESSURE CONTROL VALVES



CONNECTION SIZE

PSIG MAX. WORKING PRESSURE (multiply by 10)


2200 SMT PO 7/8 IV EP S6 V

CONNECTION		PRODUCT		BODY STYLE		ACTUATOR		INNER VALVE SIZE		TRIM MATERIAL		OTHER MODIFIERS	
S	Female NPT (Screwed)	M	Control Valve (Motor Valve)	T	Through	PB	Cage Guided (Piston Balanced)	## IV	Inner Valve (Trim Size)	S6	Stainless Steel	BWKS	Bottomworks Only
150RF 300RF 600RF 900/1500RF	Raised Face	3W	3 Way Valve	A	Angled	PO	Stem Guided Pressure-to-Open (Fail Close)	EP	Equal Percentage	ZR	Zirconia	TWKS	Topworks Only
600RTJ 1500RTJ	Ring Type Joint Flange	MV	Metering Valve	D	Dual (T-Body)	PC	Stem Guided Pressure-to-Close (Fail Open)	CB	Carbide (Quick Opening)	CB	Carbide	W/S6BDY	Stainless Steel Bottomworks
API	API 5000			S	Stinger (Non-Freeze)	LPO	Lower Port Open	REFINED /REF	Modified EP	[blank]	D2 Steel (Standard)	W/___# SPR	Spring Options
SW	Socket Weld					LPC	Lower Port Closed	[blank]	Linear (Standard)			PC	Pressure-to-Close (End modifier for Cage Guided Valves)
SD	NPT Dual (Splitter)											30/75/ 150/250 HPPR	High Pressure Pressure Reducing Package w/Pilot
WD	Socket Weld Dual (Splitter)											30/75/ 150/250 HPBP	High Pressure Back Pressure Package w/Pilot
												W/___#OPR	Package w/Ounces Pilot

GENERAL PRODUCT MODIFIERS	
V	Viton Elastomers
HSN	HSN Elastomers
AF	Aflas Elastomers
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VALVES
LOW PRESSURE CONTROL VALVES



CONNECTION SIZE

PSIG MAX. WORKING PRESSURE *(multiply by 10)*

130

SMT

ADAB-D

S6

VITON

CONNECTION		PRODUCT		BODY STYLE		SERVICE		TRIM SIZE <i>(ELO ONLY)</i>		BODY MATERIAL		TRIM MATERIAL		OTHER MODIFIERS	
F	Flanged <i>(150 RF)</i>	M	Motor Valve <i>(Control Valve)</i>	T	Through	ADA	Adjustable Double Acting; Full Port	1/2	0.5" EP	D	Cast Ductile	S6	Stainless Steel	W/HEAVY SPR	With Heavy Spring
G	Grooved	E	Electric			ADAB	Adjustable Double Acting; Reduced Port	3/8	0.375" EP	S	Steel	<i>[blank]</i>	D2 Steel <i>(Standard)</i>	KC	Kimcoat (Z-Pex)
S	Female NPT <i>(Screwed)</i>					DA	Double (Direct) Acting; Full Port	1/8	0.125" EP						
						DAB	Double (Direct) Acting; Reduced Port								
						MOTOR VALVE	Single (Reverse) Acting; Full Port								
						B	Single (Reverse) Acting; Reduced Port								
						ELO	Electric Low Pressure Control Valve								

VALVES
WEIGHT OPERATED DUMP VALVES



CONNECTION SIZE

N/A *(60 psi was the operating pressure for cast iron models and is no longer relevant for cast ductile bodies.)*

26

FWA-D

WEIGHT OP VALVE

S6V

CONNECTION		PRODUCT		BODY STYLE		BODY MATERIAL		PRODUCT FAMILY		OTHER MODIFIERS	
S	Female NPT <i>(Screwed)</i>	W	"Water" Valve	A	Angled	D	Cast Ductile	WEIGHT OP VALVE (WT OP)	Weight Operated Dump Valve	S6	Stainless Steel Trim Material
F	150 RF <i>(Raised Face)</i>					S	Steel	DIAPH BAL TRUN	Diaphragm Balanced Trunnion	DEL SEAT	Delrin Seat

GENERAL PRODUCT MODIFIERS	
V	Viton Elastomers
HSN	HSN Elastomers
AF	Aflas Elastomers
MTR	Material Test Report
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VALVES LIQUID DUMP VALVES



CONNECTION SIZE
PSIG MAX. WORKING PRESSURE (multiply by 10)

327 FOT PB-S MECH O/W VAL S6

CONNECTION		PRODUCT		BODY STYLE		BODY TYPE		BODY MATERIAL		PRODUCT FAMILY		OTHER MODIFIERS	
S	Female NPT (Screwed)	M	Control Valve (Motor Valve)	T	Through	PB	Lever Operated Piston Balanced	D	Cast Ductile	MECH O/W VALVE	Mechanical Oil/Water Valve	S6	Stainless Steel Trim
F	150 RF (Raised Face)	O	"Oil" Valve (Lever Operated)	A	Angled	PBT	Lever Operated Piston Balanced Throttling	S	Steel	LPHV	Pneumatically Operated Low Pressure High Volume Valve	O/W ROTATE BODY	Bonnet Rotated 180°
						[blank]	Lever Operated Diaphragm Balanced	-OR-				W/TI	With Travel Indicator
						DB PC	Pneumatically Operated Diaphragm Balanced Pressure-to-Close (Fail Open)					W/O TI	Without Travel Indicator
						DB PO	Pneumatically Operated Diaphragm Balanced Pressure-to-Open (Fail Close)	5	Reduced Port				
								[blank]	Full Port				

TEMPERATURE CONTROLLERS THERMOSTATS, SEPARABLE SOCKETS, & PILOT GUARDS




HT12IAM THERMOSTAT

TEMPERATURE & PROBE LENGTH		PRODUCT		OTHER MODIFIERS	
T12	Thermostat (400° F) 12" Probe	IAT	Indirect Acting Throttle	THERMOSTAT / TEMP CONTROLLER	Product Type
HT12	High Temperature (750° F) 12" Probe	DAT	Direct Acting Throttle	BASE ASSEMBLY	Base Assembly Only
HT12PG	High Temperature 12" Pilot Guard	IAS	Indirect Acting Snap	MANUAL RESET THERMOSTAT	Indirect Shut-In
HT18PG	High Temperature 18" Pilot Guard	DAS	Direct Acting Snap	SEP SOCKET	Separable Socket
		IAM	Indirect Acting Manual Reset		
		ITC	Indirect "TC" Throttle		

GENERAL PRODUCT MODIFIERS	
V	Viton Elastomers
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FLOAT OPERATED CONTROLLERS LEVEL SWITCH (PNEUMATIC & ELECTRIC)




PSIG MAX. WORKING PRESSURE (Multiply by 100)

2200 SLS LOW PWR S6 FLOAT M/O NC

CONNECTION SIZE		PRODUCT		FLOAT MATERIAL		MANUAL OVERRIDE		OTHER MODIFIERS	
1	1-1/2" NPS	PLS	Pneumatic Level Switch	S6 FLOAT	Stainless Steel	M/O	Manual Override	W/EXT	With Extension Arm (3" or 6")
2	2" NPS	SLS	Electric Level Switch	POLY FLOAT	HDPE (High-density polyethylene)	[blank]	No Manual Override	W/LTN	Low Temperature Nitrile Elastomers
								LOW PWR	Low Power
								NO RELAY	No Relay
								W/CBL	With Cable

FLOAT OPERATED CONTROLLERS TRUNNIONS




CONNECTION SIZE
N/A ("12" and "50" represented the operating pressure for cast iron models and is no longer relevant for cast ductile bodies.)

612TO COVER-D L36 S6 HSN

CONNECTION TYPE - BODY MATERIAL		LEVER BAR LENGTH		TRIM MATERIAL		OTHER MODIFIERS	
TO COVER-DUCTILE	150 RF (Raised Face) Ductile	L36	36" Lever Bar	S6	Stainless Steel	TRUN ASSY	Trunnion Assembly (Weld Neck Incl.)
HU	Hammer Union			[blank]	Cast Ductile	FLOAT TRUNNION	Does Not Include Weld Neck
TOB-D	Trunnion, Oil, Bolt-On, Ductile					W/O WN	Without Weld Neck
TOB-S						W/8INCH WN	With 8" Weld Neck
						W/12INCH WN	With 12" Weld Neck
						W/340L16	With 16" Long Lever Bar

FLOAT OPERATED CONTROLLERS LEVEL CONTROLLER (GEN 3)




GEN 3 LLC 2 NPT LH VERT

PRODUCT		CONNECTION		MODIFIERS	
GEN 3 LLC	Pneumatic Level Controller	2/3/4/5	Connection Size	LH	Left Hand Mount
		NPT	Male NPT	RH	Right Hand Mount
		150,1500,300,600,900/1500 RF	Raised Face	VERT	Vertical Displacer
		HU	Hammer Union	W/7638	1-7/8" x 20" Displacer

GENERAL PRODUCT MODIFIERS	
V	Viton Elastomers
HSN	HSN Elastomers
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PILOTS DIAPHRAGM CONTROLLED HIGH PRESSURE PILOTS & DIFFERENTIAL PRESSURE PILOTS



PSIG MAX. WORKING PRESSURE (multiply by 10)

30 HPG DA-D W/300# SPR DIRECT

PRODUCT		TYPE		BODY MATERIAL		OTHER MODIFIERS	
HPG	High Pressure Pilot Gas	PRB	Pressure Reducing Balanced	D	Cast Ductile	DIRECT	Direct Acting
PG	Pilot Gas	PDDA	Pressure Differential Direct Acting	S	Steel	DIRECT ACTING SNAP	Direct Acting; Snap
PDC DIFF.CNTR	Pressure Diff. Controller	SP	Snap (Legacy Description)			S6	Stainless Steel Trim Material
		DA	Direct Acting			W/300# SPR	300 lbs. Spring (5 psig - 300 psig Set Point Pressure)
		LDP	Liquid Differential Pressure			W/125# SPR	125 lbs. Spring (5 psig - 125 psig Set Point Pressure)
		PD	Pressure Differential			1 LWRCONNECT	1" Lower Connection NPT
						1/4LWRCONNECT	1/4" Lower Connection NPT

PILOTS DIAPHRAGM CONTROLLED LOW PRESSURE



2 PG OPRA DA DIRECT W/20# SPR

SET POINT PRESSURE		PRODUCT		ACTION		OTHER MODIFIERS	
0.2	0.03125 - 2.5 psig	PG	Pilot Gas	DA DIRECT	Direct Acting	W/20# SPR	20 lbs. spring
0.5	0.0625 - 5 psig	PG OPRA	Ounces Pressure Regulator to Atmosphere Pilot	OA	Indirect Acting	W/2.5# SPR	2.5 lbs. spring
2	1 - 20 psig	PG OPRV	Ounces Pressure Regulator to Vacuum Pilot			W/5#SPR	5 lbs. spring

PILOTS BELLOWS CONTROLLED



PSIG MAX. WORKING PRESSURE (multiply by 10)

75 PG PILOT INDIRECT S6 V

GENERAL PRODUCT MODIFIERS	
V	Viton Elastomers
HSN	HSN Elastomers
AF	Aflas Elastomers
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Example descriptions for demonstration purposes and may not be available. Parts of descriptions and availability of general product modifiers varies by product.
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RELAYS



PSIG MAX. WORKING PRESSURE (multiply by 10)

3PGM-S STL MANUAL RESET RELAY

PRODUCT		BODY MATERIAL		OTHER MODIFIERS	
PG	Pilot Gas	D	Cast Ductile	W/692	Pressurestat Standard Heavy Spring
PGA	Pilot Gas	S	Steel	PRIORITY SIGNAL	Priority Signal
PGB	Pilot Gas Bistable			REVERSE ACTING	Reverse Acting
PGM	Pilot Gas Manual			SNAP	Snap Action (30 Volume Booster Only)
PGP	Pilot Gas Pressurestat			THROTTLE	Throttle Action (30 Volume Booster Only)
PGR	Pilot Gas Relay			W/PIPE VENT	Includes NPT Port to Capture Emissions
PGRA	Pilot Gas Reverse Acting			MANUAL RESET	Includes Manual Reset Switch (30 Volume Booster Only)
POR	Override Pilot			BISTABLE	Bistable Operation
PS	Pilot Snap				

PUMPS ENERGY EXCHANGE GLYCOL PUMPS & ELECTRIC GLYCOL PUMPS



MAX. GLYCOL FLOW RATE (gallons per hour)

MAX. WORKING PRESSURE (Multiply by 100)

9020 PV GLYCOL PUMP HSN



MAX. GLYCOL FLOW RATE (gallons per hour)

MAX. WORKING PRESSURE (Multiply by 100)

50015EV EGP 5HP 3PHASE

PUMP TYPE		OTHER MODIFIERS	
PV GLYCOL PUMP	Full Cylinder (Max. Operating Pressure 2000 psig)	2/5/7.5/10HP	Motor Horsepower
SC GLYCOL PUMP	Small Cylinder (Max. Operating Pressure 500 psig)	1PHASE	Pump & Motor Skid with 1 Phase Motor
EV EGP	Electric Glycol Pump	3PHASE	Pump & Motor Skid with 3 Phase Motor
		WANNER	[Kimray tag info not included on product]

GENERAL PRODUCT MODIFIERS	
V	Viton Elastomers
HSN	HSN Elastomers
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ORDER CODE ITEM CODE / PRODUCT CODE (not on product tag)



Description: **230 SGT BP-D REG**

AARS6HSNMTR

STANDARD CODE		TRIM MATERIAL		ELASTOMERS		CERTIFICATION	
AAR	Back Pressure Regulator	S6	Stainless Steel	HSN	HSN	MTR	Material Test Report

In most cases, the first letter refers to an organization scheme from an older catalog section for that product. "A" was simply the first section of the catalog. The next two letters are typically alphabetically generated and do not have significance.

Description: **230 SGT BP-D REG**

AAR

STANDARD CODE	
AAR	Back Pressure Regulator

SERIAL NUMBER 2003-CURRENT

209 015 1152

YEAR		DAY OF THE YEAR MADE		NUMBER RELATIVE TO THE TOTAL NUMBER OF PRODUCTS BUILT THAT DAY	
209	2009	015	January 15	1152	

VIDEO VALVE TAGGING: 4 NAMING SYSTEMS TO IDENTIFYING YOUR KIMRAY CONTROL EQUIPMENT



Scan for more information about Kimray order codes, descriptions, serial number and configuration codes.