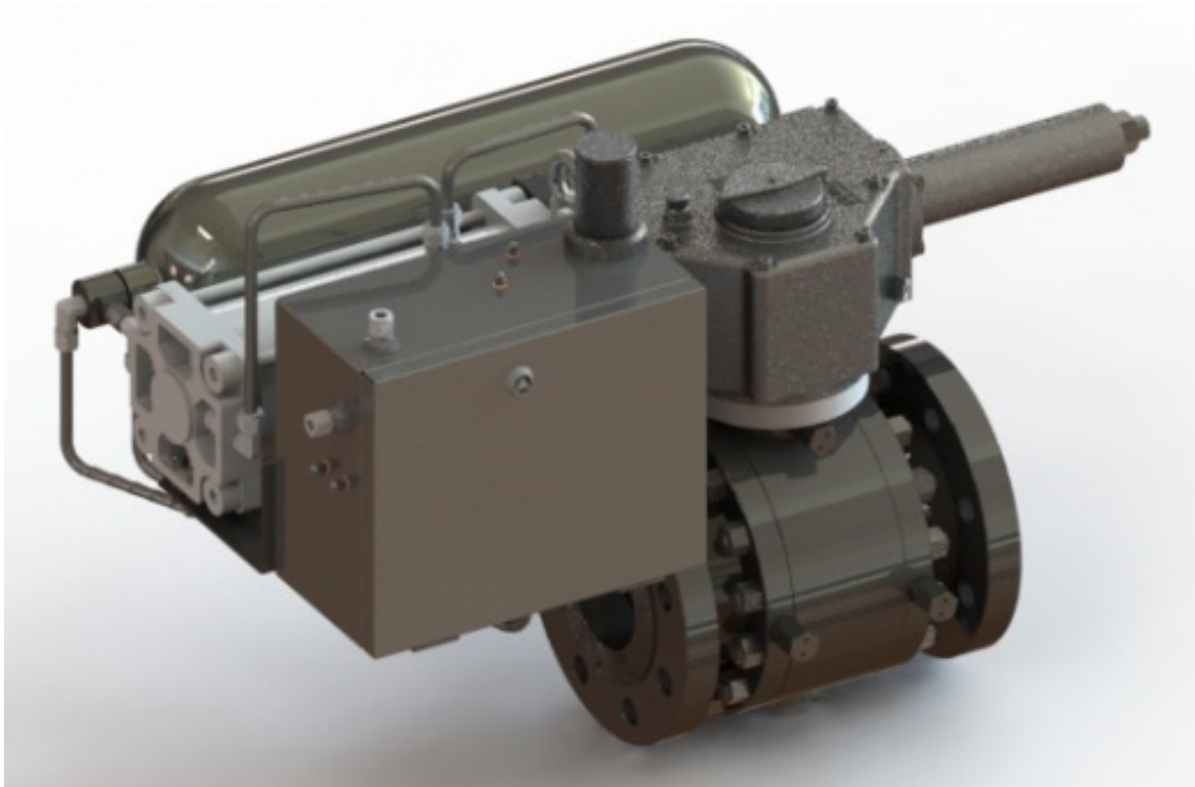


PISHGAM ENERGY KHAVAR

SHUT OFF VALVE CATALOGUE



INTRODUCTION

Pishgam Energy khavar Co design and manufactures emergency shut off valves and actuator since 2007 based on up to dated technical knowledge and national gas company standards, having professional academic staff. After joining Khorasan science and technology park studding and developing of non domestic samples optimized based on notes and suggestions of national gas company noble staffs of instrumentation, repairing and operation, pinpointing limitations of foreign products, to design and manufacture optimized high quality products.

Now Pishgam Energy Khavar continues research and develop design process and manufacture of emergency shut off valve and actuator as a technical company based in Khorasan science and technology park camp, aim to play higher roll in our national and international industry.

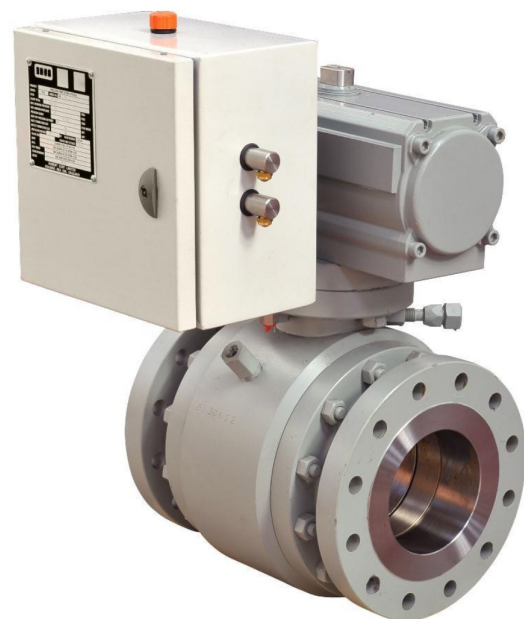
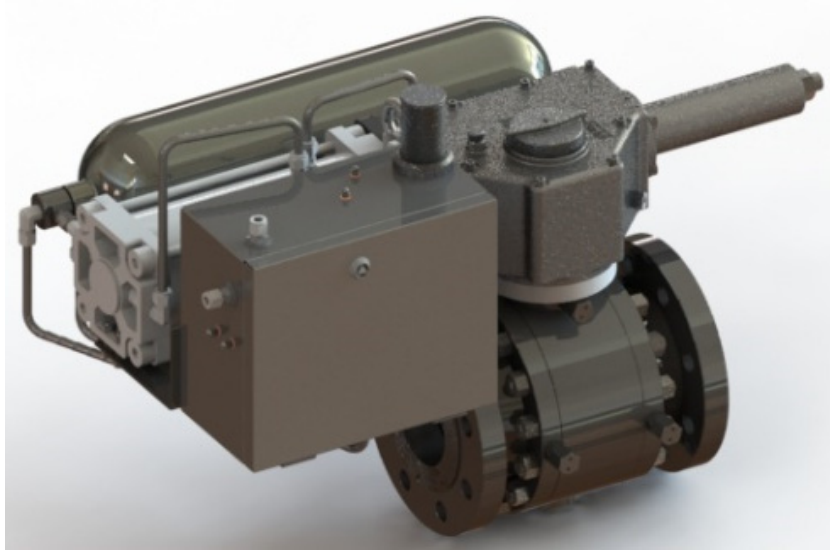
To satisfy a part of our industrial demand by manufacturing high quality products , we hope to join well known international band by hard work.

Its produces are related gas equipment .

The company's products are as follows :

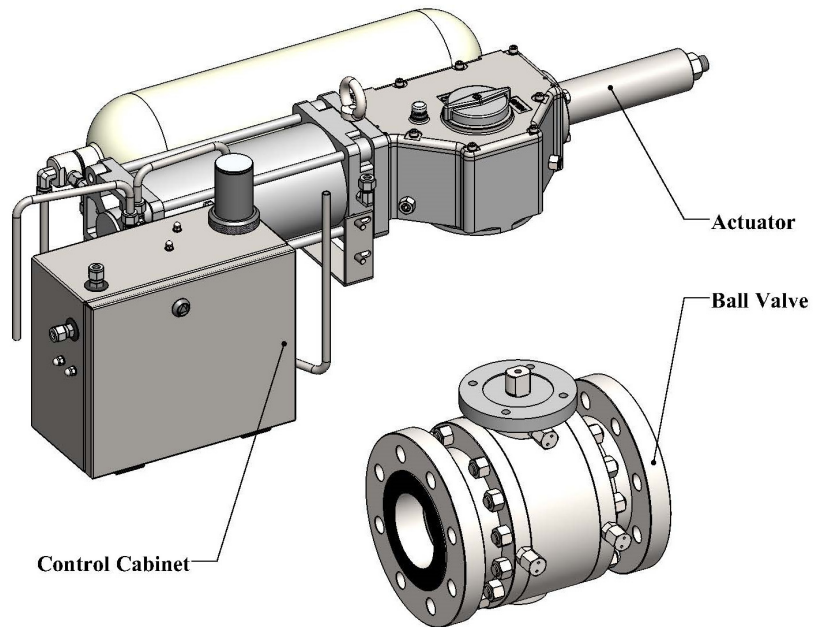
- Production and design of safety shut off valves from 2" to 12" in ANSY 150 , 300 , 600 .
- Production and design of regulator from 1" to 3" in ANSY 150 , 300 , 600 .
- Production and design of control system of LBV ledeen





Applications

The Safety Shut Off Valve pressure protection system is designed to protect equipment downstream of a pressure reducing station in a gas distribution system. It consists of a trunnion mounted ball valve complete with a scotch yoke actuator and control system supplied in a self-contained and compact unit. It is installed in the pipeline, upstream of the metering and pressure reducing station. If there is an excessive rise or reduce of pressure downstream of the station due to an equipment or operational malfunction, it will react by shutting off the supply of high pressure gas.



Product Description

Totally self-contained unit featuring:

Ball Valve

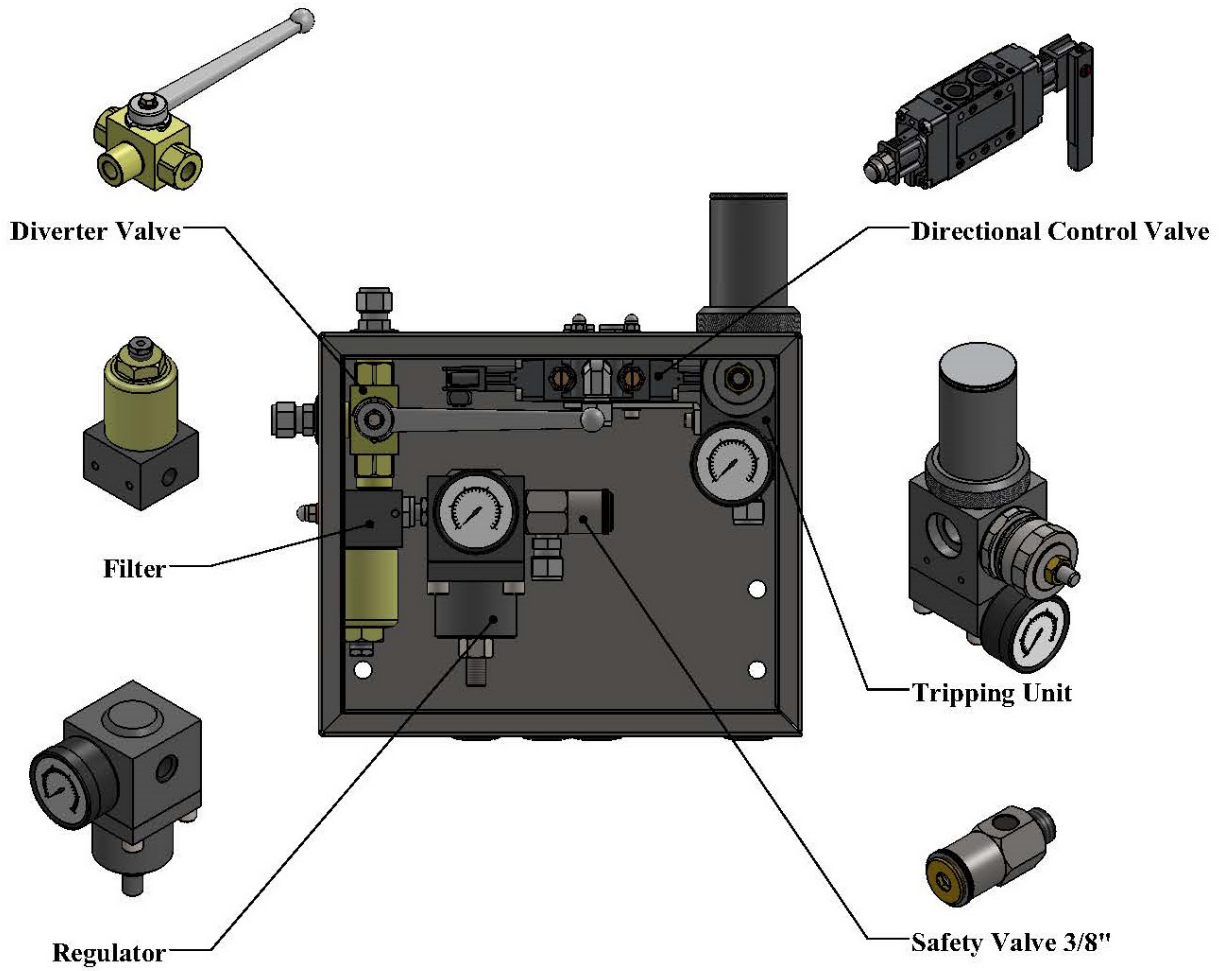
1. The main valve according to N.I.G.C specification NO. IGS-MS-PL-010
2. Trunnion mounted
3. Two piece or three piece construction
4. Double block and bleed in open and closed position
5. Antistatic device
6. Sealant injection system

Actuator

1. Double acting Scotch Yoke
2. Pneumatically operated by power gas pressure .
3. Nickel plated steel alloy drive shaft and hardened steel alloy yoke assembly
4. All bearing surfaces lubricated for life
5. Lapped and anodised cylinder bores
6. Weatherproof design

Control Cabinet

1. Diverter valve for balancing up and down stream pressures on the pipeline valve
2. Filter to ensure the control components are supplied with clean gas
3. Regulator to control the gas supply pressure to the actuator
4. Pressure sensor , with manual push button, to provide shut down signal on sensing rising and decreasing downstream pressure
5. Directional control valve closes valve on receipt of shut down signal
6. All control components are tubed together using stainless steel tube and fittings



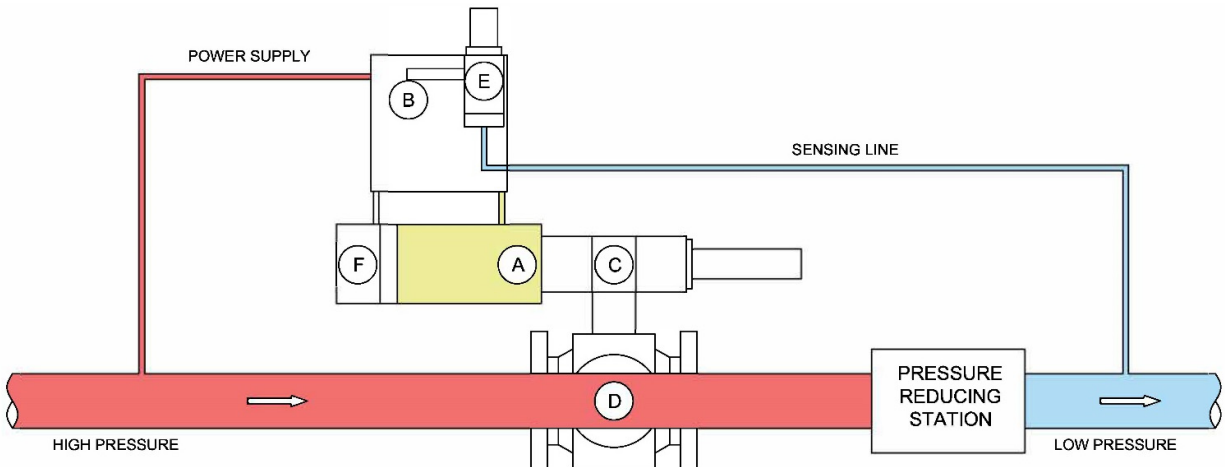
Optional Features

- Provision of spring for different set points
- Provision of remote system reset
- Provision of remote signaling
- Materials and control functions to suit customers specific requirements.

Principle of Operation

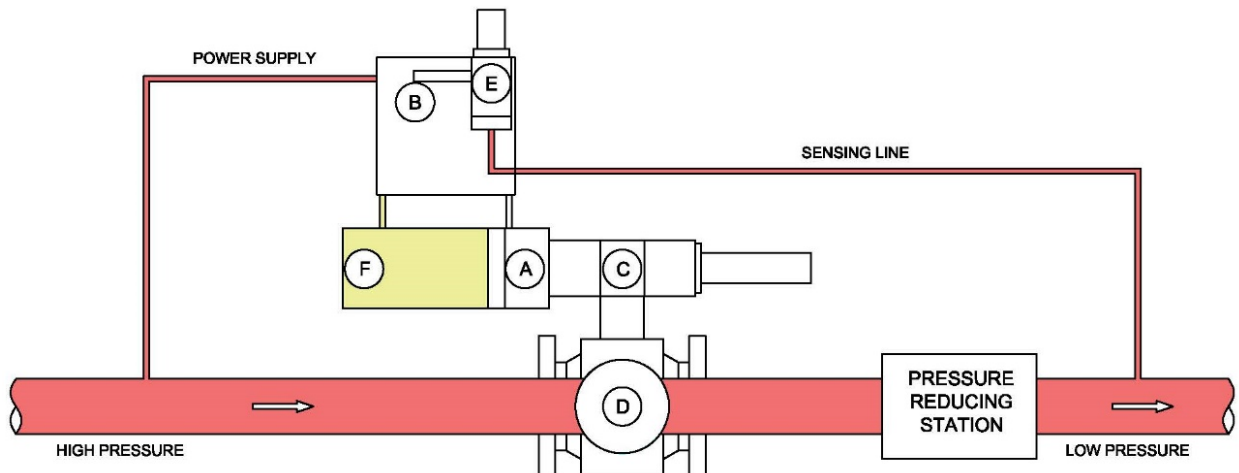
Normal Mode

The power supply is gas taken directly from the pipeline. Inside the control cabinet the gas is filtered and pressure regulated before pressuring actuator cylinder (A) via the main control valve (B). The scotch yoke actuator (C) holds the pipeline valve (D) in the open position.

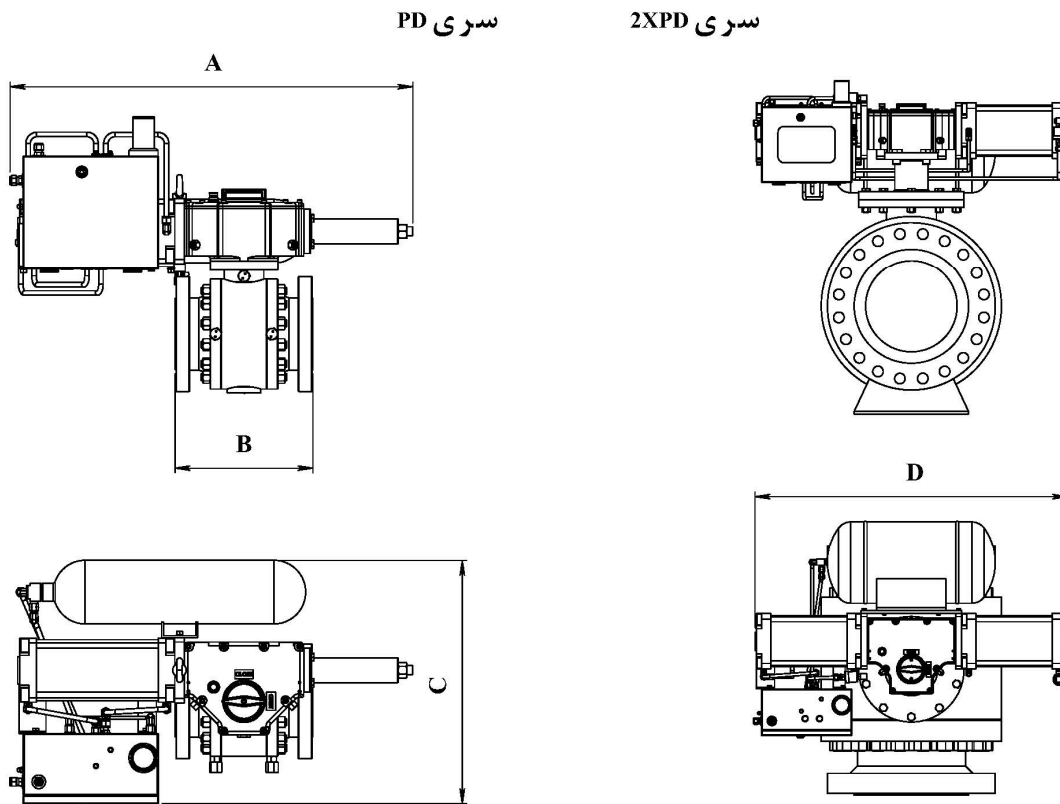


Shutdown Mode

A pressure signal line is taken to the adjustable pressure sensing valve (E) in the control cabinet from the low pressure part of the pipeline system. If an excessive pressure is detected, then the sensing valve will cause the main control valve (B) to change state. Actuator cylinder (A) will be vented and the other cylinder (F) will be pressured. As a result the pipeline valve (D) will shut. The speed of closing is adjustable and once shut the valve cannot be reopened without manual intervention.



Dimensions



#300	A (mm)	B (mm)	C (mm)	D (mm)	Actuator type
2"	800	216	530	...	PD2
3"	800	282	530	...	PD2
4"	900	305	550	...	PD4
6"	900	403	550	...	PD4
8"	1000	502	570	...	PD6
10"	1000	568	570	...	PD6
12"	...	648	730	1100	2XPD6
#600	A (mm)	B (mm)	C (mm)	D (mm)	Actuator type
2"	800	292	530	...	PD2
3"	900	356	550	...	PD4
4"	900	432	550	...	PD4
6"	1000	559	570	...	PD6
8"	...	660	730	1100	2XPD6
10"	...	787	730	1100	2XPD6
12"	...	838	730	1100	2XPD6

Applicable Standards

Valves

- API 6D Specification for pipeline valves
- API 6FA Specification for fire test for valves
- API 607 fire test for soft seated ball valves
- IGS-MS-PL-010

Actuators

- Iranian Gas Standards
- IGS-MS-IN-301 (1) : 1996
- IGS-MS-PL-010 (1,2, & 3) : 1994

Shut off valve

- IGS-MS-IN-301 (1) : 1996
- ASTM B117

CERTIFICATE

