

12. Actuation and Controls

Section 12. Actuation and Controls

Full range of Linear and Quarter Turn Actuators

Bespoke designed control systems and actuator solutions
Subsea and topside service

Scotch Yoke Type (Compact)		Scotch Yoke		Rack and Pinnion		Linear	
Pneumatic		Pneumatic	Hydraulic	Hydraulic		Pneumatic	Hydraulic
Double Acting	Single Acting	Double Acting	Single Acting	Double Acting	Single Acting	Double Acting	Single Acting
Single Acting		Single Acting	Double Acting	Single Acting	Double Acting	Single Acting	Double Acting

PRESSURE & TEMPERATURE RATINGS							
MAX. WORKING PRESSURE	5,000 PSI	7,500PSI	10,000PSI	15,000PSI	20,000PSI	30,000PSI	
TEST PRESSURE	7,500PSI	11,250PSI	15,000PSI	22,500PSI	30,000PSI		
PRODUCT SPECIFICATION LEVELS	1,2,3 & 4	1,2,3 & 4	1,2,3 & 4	1,2,3 & 4	1,2,3 & 4	1,2,3 & 4	
PRODUCT RATING	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	
API TEMPERATURE RATING	K (-60 DEG C) TO Y (+345 DEG C)	K (-60 DEG C) TO Y (+345 DEG C)	K (-60 DEG C) TO Y (+345 DEG C)	K (-60 DEG C) TO Y (+345 DEG C)	K (-60 DEG C) TO Y (+345 DEG C)	K (-60 DEG C) TO Y (+345 DEG C)	
RATING	150lb	300lb	400lb	600lb	900lb	1,500lb	2,500lb
MAX. WORKING PRESSURE	285 PSI	740 PSI	990 PSI	1480 PSI	2220 PSI	3705 PSI	6170 PSI
TEST PRESSURE	450 PSI	1125 PSI	1500 PSI	2225 PSI	3350 PSI	5575 PSI	9275 PSI
OPERATING TEMPERATURE RANGE	-28 TO +540 DEG C	-28 TO +540 DEG C	-28 TO +540 DEG C	-28 TO +540 DEG C	-28 TO +540 DEG C	-28 TO +540 DEG C	-28 TO +540 DEG C

visit www.rbvenergy.com for more info

GENERAL NOTES: Please contact RBV Energy for any special material or dimensional requirements.

Max. working pressures stated are suitable for temperatures up to 121°C.

De-rating of max. working pressure will occur as the operating temperature increases above 121°C.

Diagram 12.1 Actuated Gate Valves



Hydraulically actuated through conduit gate valves.

Spring return fail safe design.

Linear travel.

Fast closing.

Diagram 12.2 Actuated Ball Valves

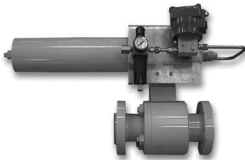
Can be supplied c/w fully integrated and tested control panel.

Actuator materials to client spec.

To suit Ball, Butterfly or Gate valves.



Diagram 12.3 Compact Actuated Ball Valves



Compact type actuator.

Economical, lightweight and low maintenance.

Fail to close or fail to open configurations.

Diagram 12.4 ESD Valve

Scotch Yoke mechanism.

Spring chamber option for emergency shutdown service (spring return).

Suitable for manual control via handwheel or hydraulic pump.

