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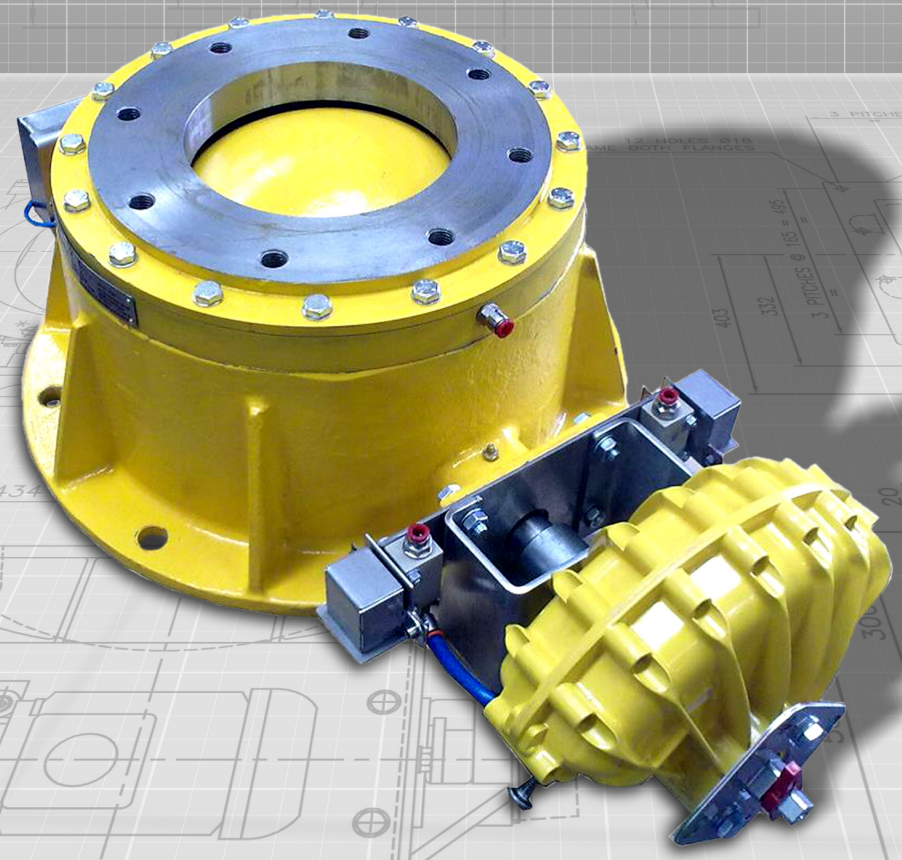
ROUNDHEAD VALVE



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INTRODUCTION

Roundhead valves are used in bulk handling industries as on/off controls for powder, pellets or granules falling under gravity from one discharge point to another.

They are designed specifically to give a full bore opening in pressure applications and are particularly suited to handling abrasive products, slurries and cohesive products.

CONSTRUCTION

The valve consists of a cast body and inlet flanges with an internal cast dome and inflatable seal. The castings are CNC machined to ensure that the seal is properly seated and presses uniformly against the dome when inflated. The dome is clamped to side shafts which operate within impregnated bush bearings in the body with external lubrication points. Lip seal shaft seals protect the environment against product leakage and maintain any internal pressure.

OPERATION

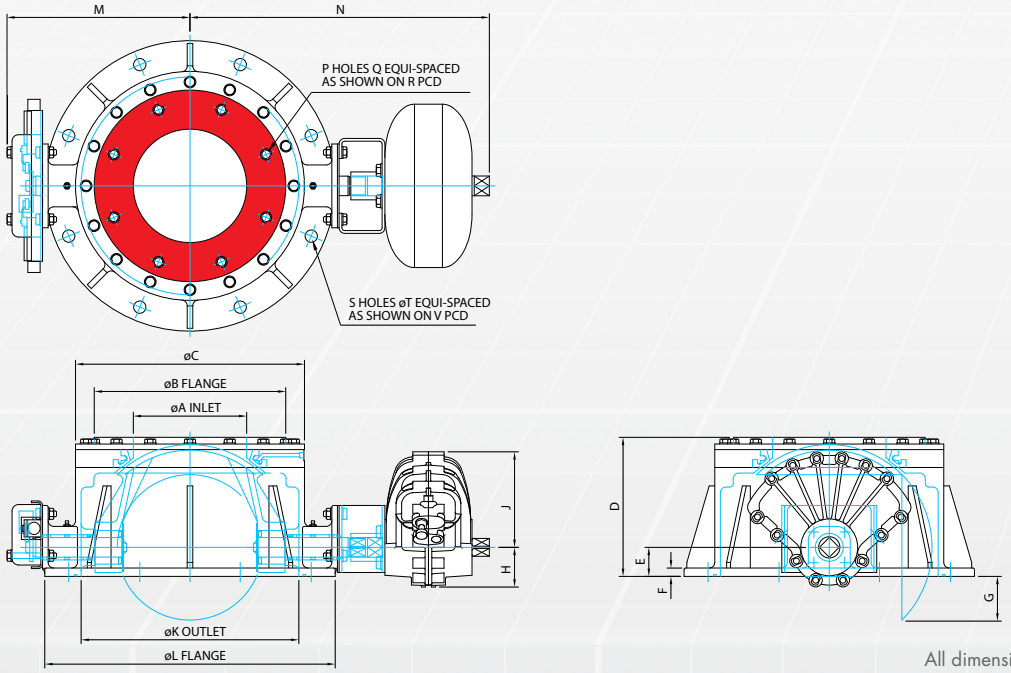
A pneumatic quarter turn actuator is directly coupled to the drive shaft and dome. Air supply to the actuator is via a solenoid valve, flow regulators and piping. The flow regulators are fitted and set to restrict the dome operation speed to less than 1m/s.

Limit switches are fitted and positioned to indicate open/closed conditions.

OPTIONS

- Cast Iron, Aluminium, Stainless Steel or Carbon Steel construction
- Seal options
- Actuation options
- Tungsten Carbide, Hard Chrome or PTFE Dome coatings
- Pressure differentials
- Operating temperatures

STANDARD DIMENSIONS



All dimensions are in millimetres

SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	V
100	102	250	250	178	52	15	30	42	160	230	340	288	340	8	M 16 x 16 DEEP	190	6	18	300
150	152	279	340	219	52	15	55	42	160	320	483	319	412	8	M 20 x 20 DEEP	242	8	22	390
200	203	343	410	249	52	15	80	71	171	390	520	338	538	8	M 20 x 20 DEEP	290	8	22	470
300	305	483	572	322	82	15	130	42	160	552	690	423	515	12	M 22 x 22 DEEP	432	12	26	630
400	406	597	750	436	100	35	138	90	235	720	920	521	631	16	M 24 x 25 DEEP	540	12	33	838

Dimensions are approximate and subject to change without notice
Planning-in detail for general guidance only
(To cover safety aspects ask for our safety leaflets)
Drillings are Rotolok standards. Variations can be made.

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