International Standard 8719

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Commercial vehicles and buses — Four-hole flanges for gear-driven air compressors

Véhicules utilitaires et autobus — Flasques à quatre trous pour compresseurs à air entraînés par pignons

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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

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Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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Commercial vehicles and buses — Four-hole flanges for gear-driven air compressors

1 Scope and field of application

This International Standard specifies nominal dimensions and tolerances of four-hole flanges for gear-driven air compressors; it also specifies the locations of lubricating oil inlet and outlet connections.

This International Standard applies to flanges of gear-driven compressors mounted on reciprocating internal combustion engines for commercial vehicles and buses.

3 Dimensions and tolerances

3.1 Dimensions of the four-hole flange

The flange configuration shall be contained within the area of dimensions P, W, H, A, B and r (see figure 1 and table 1).

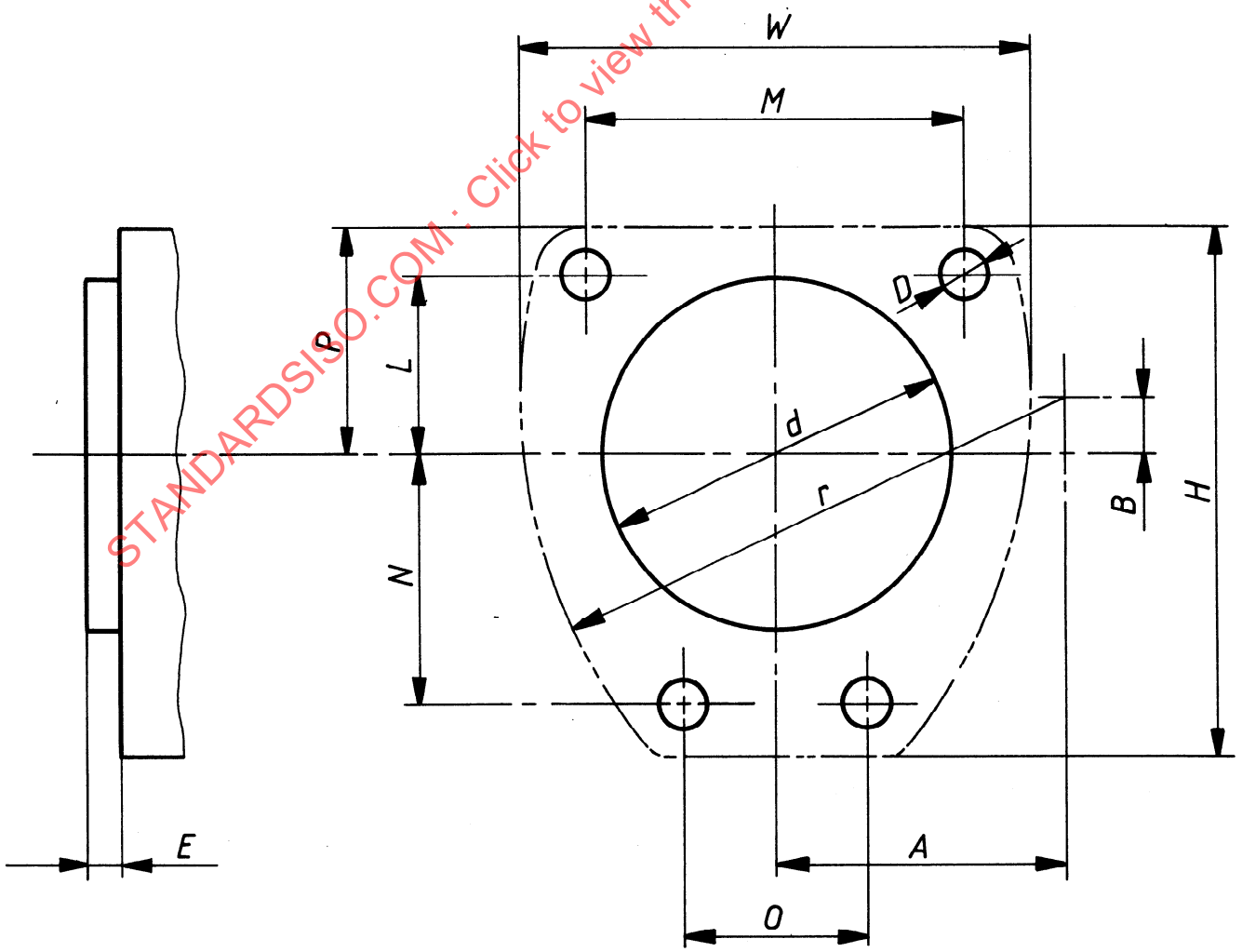

Figure 1 — Four-hole flange configuration

Table 1

Dimensions in millimetres

d h8	*L* ± 0,2	*M* ± 0,2	*N* ± 0,2	*O* ± 0,2	*P* max.	*D* $^{+0,3}_{0}$	*W* max.	*H* max.	*A*	*B*	*r* max.	*E* $^{+2}_{0}$
100	50	100	70	48	63	11	132	148	80	15	146	5

3.2 Dimensions and locations of lubricating oil inlet connection

The choice between the two possible locations (1 or 2) of the lubricating oil inlet connection shall be decided by mutual agreement between supplier and user (see figure 2 and table 2).

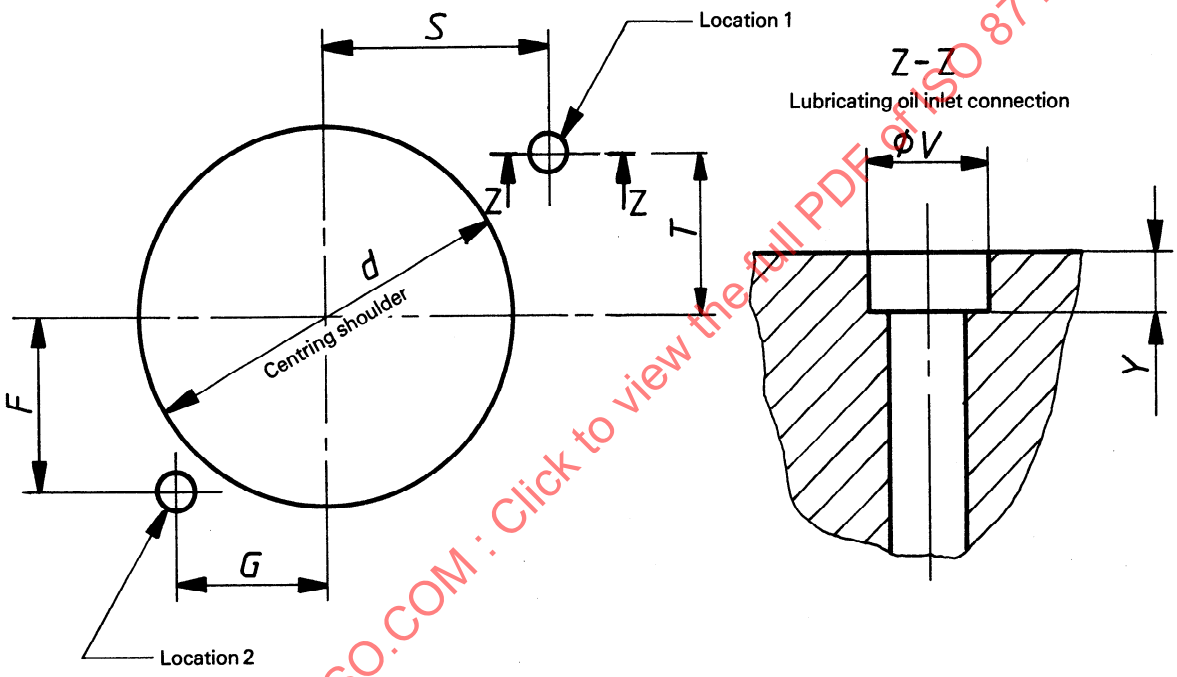

Figure 2 — Dimensions and location of lubricating oil inlet connection

Table 2

Dimensions in millimetres

Location	*F* ± 0,2	*G* ± 0,2	*S* ± 0,2	*T* ± 0,2	*V* $^{+0,2}_{0}$	*Y* min.
1	—	—	56	30	9	5
2	47	38	—	—	9	1

3.3 Location of lubricating oil outlet connection

There are two possible locations for the discharge of the lubricant; both possibilities may be provided at the compressor.

a) Outlet within the centring shoulder. In this case, assembly is possible up to 80° of rotation around the horizontal axis of the crankshaft on either side.

NOTE — As this type of compressor can always be mounted to replace the one defined in b), this alternative is recommended for the future.

b) Outlet outside the centring shoulder. In this case the area where the hole shall be located is defined by establishing two diameter values and the widest angle given in figure 3.

NOTE — In this case, the minimum outside radius value (smallest) and the maximum inside radius value (largest) that are set by the engine manufacturer shall rule.

Dimensions in millimetres

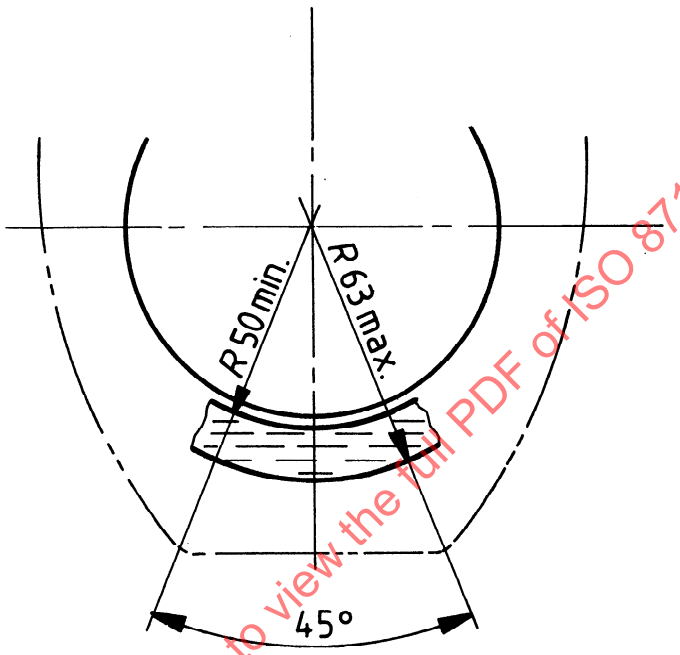

Figure 3 — Location of lubricating oil outlet outside the centring shoulder

4 Other specifications

Dimensions and requirements not given in this International Standard are left to the discretion of the manufacturer.

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