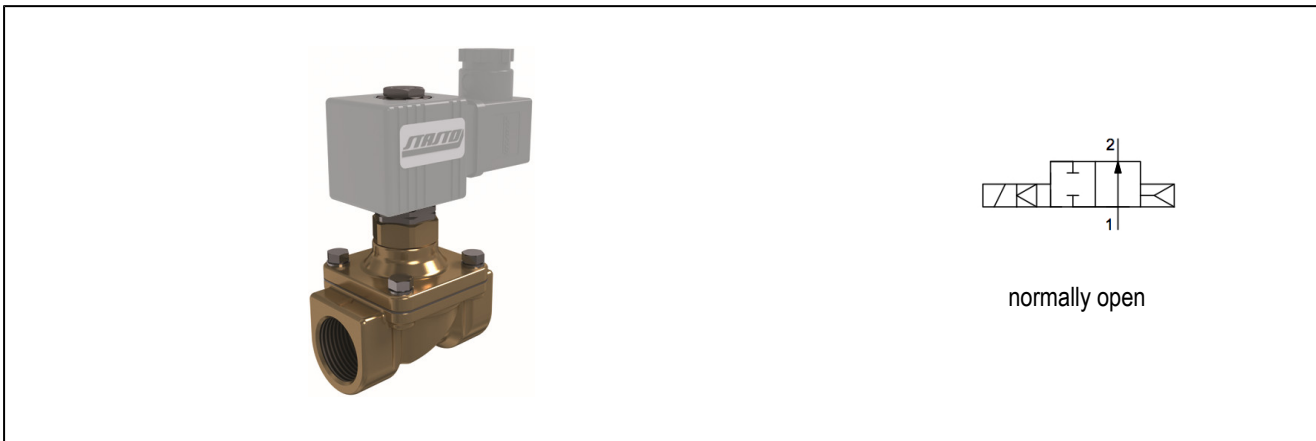


2/2 - way solenoid valve - combined operated series 21HT-Z



design	2/2-way solenoid valve with diaphragm, combined operated, normally open
connection	G3/8"...G3/4" according to ISO228/1
materials	body brass, inner parts brass and stainless steel similar to AISI 430F, seals NBR or FKM
type of fixing	installed into rigid pipework
mounting position	preferably with a vertical electrical part
application	gaseous and liquid fluids which do not affect the used materials
viscosity	max. 12mm ² /s (cst)
switching time	depending on operating pressure and media
medium temperature	dependent on sealing material
ambient temperature	see table "coil"
electrical data	
type of coil	DC: type GDH/GDV, without connector, connector size 32mm (coil for humid area) AC: type GDHR/GDVR, with connector with integrated rectifier (coil for humid area)
electrical connection	connector acc. to EN175301-803-form A (see separate datasheet)
type of current	AC and DC
standard voltage	230V/50-60Hz, 24V/50-60Hz, 24VDC
special voltage	on request
acceptable voltage tolerance	+10%/-5%
power consumption	see to the table "power consumption of coils"
duty cycle	100% duty cycle (continuous operation)
protection class	IP65 according to EN 60529 for a correctly mounted connector (protection against the penetration of dust and jet water)
direction for use	please specify voltage and type of current by order. we always recommend connecting a strainer in front of the valve, otherwise malfunction can occur in the event of contaminated medium. these valves can also be used for rough vacuum.

type code

		21HT 3 Z0 Y 110 - GDV - 230V/50-60Hz	
connection	G3/8"	3	
	G1/2"	4	
	G3/4"	5	
seal	NBR	Y	
	FKM	V	
nominal diameter	11mm	110	
	16mm	160	
coil	GDH - DC - coil for humid area - approval CE		GDH
	GDHR - AC - coil for humid area - approval CE		GDHR
	GDV - DC - coil for humid area - approval CE-CSA-UL-VDE		GDV
	GDVR- AC - coil for humid area - approval CE-CSA-UL-VDE		GDVR
voltage	230V/50-60Hz		230V/50-60Hz
	24V/50-60Hz		24V/50-60Hz
	24VDC		24VDC

application of the individual seal materials

material	medium temperature	examples of use
NBR	-10...90°C	air, water, neutral gases and liquids
FKM	-10...140°C	oils, petrol, diesel

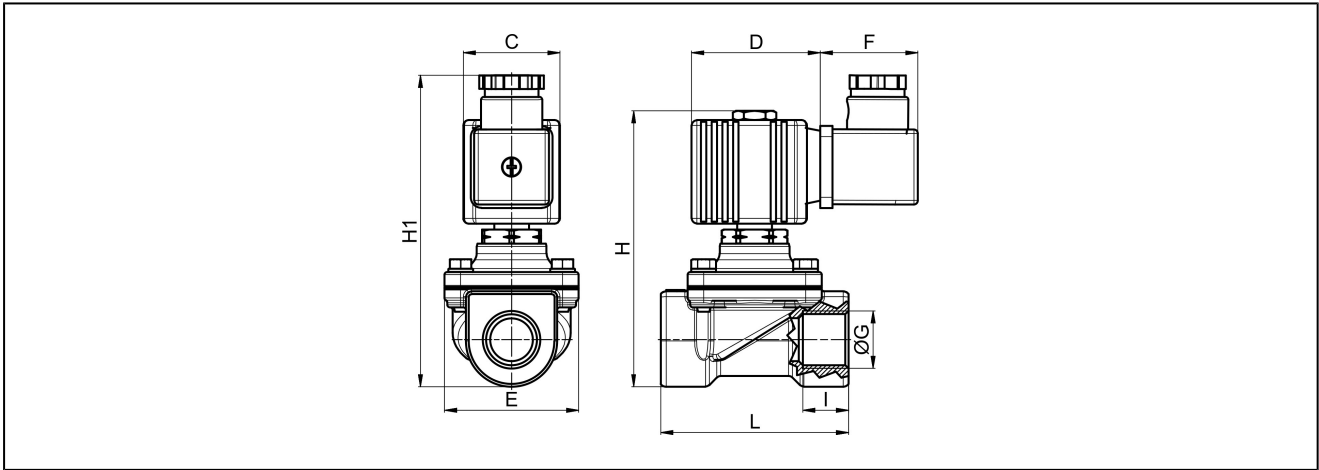
coil

type	protection class	use	ambient temperature	approvals
GDH, GDHR	IP65	medium temperature up to max. 180°C, high humidity	-20...+40°C	CE
GDV, GDVR	IP65	medium temperature up to max. 180°C, high humidity	-20...+60°C	CE-CSA-UL-VDE

power consumption of the coils

voltage	inrush power (AC) VA	holding power (AC) VA	holding power (direct current) at operating temperature W	type
12VDC	-	-	14	GDH14012CS
48VDC	-	-	14	GDH14048CS
220VDC	-	-	14	GDH14220CS
24VDC	-	-	14	GDVR14024CY
24V/50-60Hz	-	-	14	GDVR14024DY
230V/50Hz 240V/60Hz	-	-	14	GDHR14230AY

dimensions



connection G	nominal diameter DN[mm]	pressure range [bar] AC	pressure range [bar] DC	C	D	E	H	H1	I	L	kv value [m ³ /h water]	weight [approx. kg]	coil	type
G3/8"	11	0-10	0-10	52	55	50	101	114	12	56	1,2	0,9	GD.	21HT3Z0.110
G1/2"	16	0-10	0-10	52	55	50	112	125	14	70	2,4	1,1	GD.	21HT4Z0.160
G3/4"	16	0-10	0-10	52	55	50	112	125	16	70	2,4	1,1	GD.	21HT5Z0.160

illustrations are non-binding
all designs, configurations, measurements and materials are subject to change without prior notice