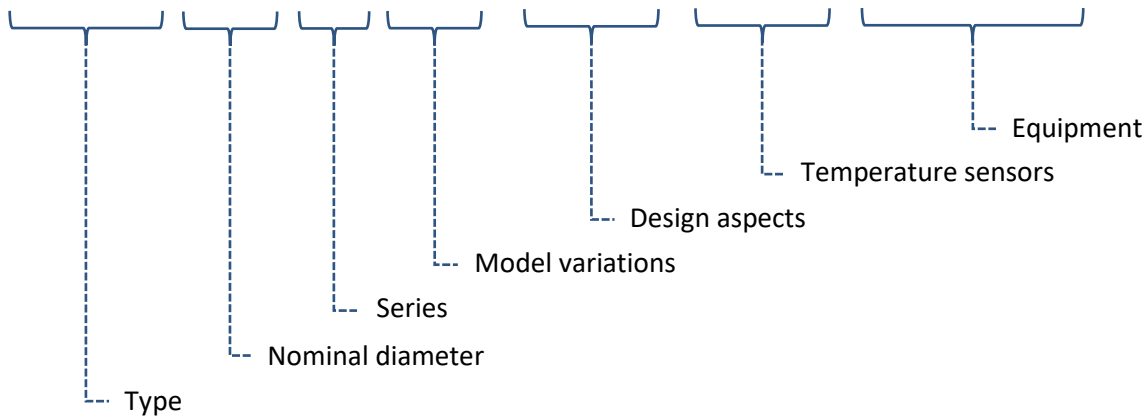


VELCO 500 H2 N80 [KXGX-S1S18-XXX1DM]



Type and nominal diameter - VELCO 500 H2 N80

Type	
VELCO	≥ DN 250 / Generation 1
VELCO²	≥ DN 250 / Generation 2
VCP	≤ DN 200 / cold head 90° to flange

Standard nominal diameter	
DN 100	DN 500
DN 160	DN 630
DN 200	DN 800
DN 250	DN 900
DN 320	DN 1000
DN 400	DN 1250

Series and special model - VELCO 500 H2 N80 (optional)

Series	
S	Sputtering process with argon, T1 limitation (memory effect), and wide baffle for process pressures up to 5E-3 mbar.
Xe	For processes involving Xenon, a special configuration allows pumping of Xe at <50K on the first stage.
LN2	The first stage is operated with liquid nitrogen. The second stage is operated with a GM cooling system.
H2	Optimized for hydrogen as process gas. Special models for pumping speed and throughput.
LV	Low vibration. Pulse tube cooling system and additional measures to minimize vibrations.
UHV	All metal sealed and heatable in various stages for UHV applications.
Kr	For processes involving Krypton, a special configuration allows pumping of Kr at <37K on the first stage.

Model variations	
N	One or two letters are used to declare cooling system options deviating from the standard.
80	This number describes the lowest temperature resistance of the components used. (without displacer)

Product key VELCO and VCP

Design [KXGX-S1S18-XXX1DM]

Flange	Housing material	Housing model	Chemical resistance
K ISO-K	X 1.4301	G Standard	X Standard
F ISO-F	L 1.4404	F Flange without housing	K Corrosive media
C CF-F	A 3.2315	C Housing all flanges CF-sealed, cold head with edge sealing	R Radiation
A ASA		O Housing all flanges CF-sealed, cold head with o-ring	T Tritium
V Vinyl		U Housing all flanges CF-sealed, cold head CF-sealed	M Resistant to metallic coating
		W Housing water-cooled and O-ring sealed	Y T + No fluorine and chlorine-containing components
		Z Housing water-cooled and CF-sealed	

Temperature sensors [KXGX-S1S18-XXX1DM]

Type stage 1	No.	Type stage 2	No.	Feedthrough
X none	X	X none	X	5 5-pin CF-F Vacom
S KTS standard	1	S KTS standard	1	8 8-pin ISO-K Lemo
K KTS slightly corrosive	2	K KTS slightly corrosive	2	S 5-pin CF-F Sumitomo
D KTS highly corrosive	3	D KTS highly corrosive	3	
P KTP PT sensor	4	P KTP PT sensor	4	
C KTC Cernox encapsulated		C KTC Cernox encapsulated		
Y KTC Cernox exposed		Y KTC Cernox exposed		
L KTD diode DT670		L KTD diode DT670		
U Diode SI-410		U Diode SI-410		

Options [KXGX-S1S18-XXX1DM]

Valve	Purge gas	Heater	No. HCH	Pressure gauge	Electronics
X none	X none	X none	X	X none	X none
P AVC 040	V N.C.	H Heating jacket	1	P PKR 251	T TPM
B UHV GE41	N N.O.	D HDL	2	T PIT 104	C CBO
		S HDH		D 2x CCT 36x	M T + C
				R TPR 018	
				G PSG 500	
				C 2x CDG025	
				H CDG100D	