



**Heated Cabinet
Special**



**External coalescing filter option
Ensures clean/dry air/gas**

TECHWEST

W I L L I A M S C H E M I C A L I N J E C T I O N

WCIS Range of Modular Pneumatic Chemical Injection Systems



DDS Base for added reliability
Allows duty/duty or duty/standby
operation (true 100% spare)



IEP Solution
DDS Base & IEP for remote control
and flow monitoring



Techwest Williams Chemical Injection Australia manufactures a range of Pneumatic Chemical dosing systems ready for use in almost any chemical injection application.

These Compact Systems have been designed in a Modular fashion so each unit can function on its own or be banked together for multi pump injection of one or more chemicals.

Benefits of the WCIS Design

- API 675 compliance
- Pneumatic operated – safe in zoned areas
- All 316ss construction
- Standard front panel layout
- Able to be individually calibrated for desired injection rate
- Quick installation and ease of operation
- Ideal for chemical trials or one of dosing
- Reduced environmental risk due to chemical spillage (integrated spill tray)
- Ability to expand by just adding a further module System if required
- Easy to relocate for new application if made redundant
- Can be maintained on an exchange program eliminating downtime

Optional Extras

- Coalescing Filter- ensuring uptime by keeping air/gas clean
- DDS Base – allowing duty – duty or duty-standby operation
- IEP
- Heated cabinets



WCIS Range of Modular Pneumatic Chemical Injection Systems

System	Air/Gas Supply	* Maximum Flow		Maximum Discharge Pressure		System Size				
		MAX. PSI	GPH	LPH	PSI	Bar	Weight (kg)	Height	Width	Depth
WCIS-CP "V" Series										
WCIS-CP125V125	100	0.07	0.27	6000	414	17.5	520mm	305mm	305mm	
WCIS-CP250V225	100	0.57	2.16	6000	414	20	520mm	305mm	305mm	
WCIS-CP250V300	100	0.57	2.16	6000	414	20	520mm	305mm	305mm	
WCIS-CP500V225	100	2.3	8.71	1750	120.7	20	520mm	305mm	305mm	
WCIS-CP500V300	100	2.3	8.71	3250	224.1	20	520mm	305mm	305mm	
WCIS-WRA "Wilroy" Series										
WCIS-WRA-1-11-2M-NN-SE-BB	100	0.57	2.16	3000	206.8	30	520mm	305mm	305mm	
WCIS-WRA-1-11-5M-NN-SE-BB	100	2.3	8.71	3000	206.8	30	520mm	305mm	305mm	
WCIS-CRP "V" Series										
WCIS-CRP500V400	100	2.3	8.71	6000	414	30	520mm	305mm	450mm	
WCIS-CRP750V400	100	5	18.9	2600	179.3	35	520mm	305mm	450mm	
WCIS-CRP1000V400	100	9.08	34.37	1520	104.8	35	520mm	305mm	450mm	
WCIS-CRP1000V400	150	9.08	34.37	2300	158.6	35	520mm	305mm	450mm	
WCIS-CRP1000V600	100	9.04	34.22	3400	234.4	40	520mm	305mm	450mm	
WCIS-CRP1000V600	150	7	26.5	4700	324	40	520mm	305mm	450mm	
WCIS-CRP1000V800	100	8.81	33.5	6000	414	50	520mm	305mm	450mm	
WCIS-CRP1000V800	150	6.82	25.81	6000	414	50	520mm	305mm	450mm	
WCIS-CLD "LD" Series										
WCIS-CLD-100-316/TFE	100	0.75	2.8	80	5.5	20	520mm	305mm	305mm	
WCIS-CLD-200-316/TFE	100	10	37.8	98	6.8	20	520mm	305mm	305mm	

* Refer to Williams flow curve for actual pressure flow capacity.

NOTE:

- Other Williams pump sizes are available as special skid orders
- Maximum discharge pressure is capped at 6000psi due to PSI set pressure maximum in standard configuration.
- Pump pressure is dependent on seal selection. (See guide on seal material pressures).

How to order V System

WCIS - Pump

Plungers

CR for Ceramic,
A for 17/4 or
B for 316SS

Seal Selection

TC – Standard (Teflon composite)
V or B or EPR (Viton, Buna or Ethylene Propylene)
PE or TG (Polyethylene or Teflon Graphite)

WCIS Range of Chemical Injection Systems

Standard Systems Configurations

WCIS-CPV & WILROY system SERIES

(High pressure/Low volume 0-8L/HR)



Features:

- All tubing and fittings 316SS
- 1 x Williams V or WRA Series (API 675) Pump (316s/s), and MK XII Controller to Regulate Strokes per Minute (316s/s)
- 1 x Chemical "Y" Strainer – 263 micron (316s/s)
- 1 x Rate Gauge to suit flow rate of the pump (316s/s)
- 1 x Air/Gas Regulator to set input pressure with gauge (316s/s)
- 1 x 63mm Pressure Gauge for Discharge pressure (316s/s)
- 1 x Pressure Safety Valve set to customers requirement - 50-6000PSI (316s/s)
- 1 x Isolation Valve from Chemical Supply (316s/s)
- 1 x Isolation Valve from Chemical Rate Gauge (316s/s)
- Assembled into easy to operate system contained within a Modular style Frame complete with 70mm spill tray (316s/s)
- Discharge Check Valve to prevent backflow
- Each System has its own Serial Number for tracking purposes



WCIS-CP250V225CRTC Systems

V series Plungers	
CR	Ceramic
A	17/4
B	316SS

V Series seal Options and suggested pressure range	
V	Viton (100-750psi)
BR	Buna (100-750psi)
EPR	Ethylene Propylene (100-750psi)
K	Kalrez (100-750psi)
TC – Standard	Teflon composite (100-3000psi) -
PE	Polyethylene (100-3000psi)
TG	Teflon Graphite (3000-10000psi)

WCIS Range of Chemical Injection Systems

Standard Systems Configurations

WCIS-LD-Systems SERIES

(Low Pressure/High volume 0-37L/HR)

Features:

- All tubing and fittings 316SS
- 1 x Williams "LD" Series (API 675) Pump (316s/s) and MK XII Controller To Regulate Strokes per Minute (316s/s)
- 1 x Chemical "Y" Strainer (316s/s)
- 1 x Rate Gauge to suit flow rate of the pump (316s/s)
- 1 x Air/Gas Regulator to set input pressure with gauge (316s/s)
- 1 x 63mm Pressure Gauge for Discharge pressure (316s/s)
- 1 x Isolation Valve from Chemical Supply (316s/s)
- 1 x Isolation Valve from Chemical Rate Gauge (316s/s)
- Assembled into easy to operate system contained within a Modular style Frame complete with 70mm spill tray (316s/s)
- Each System has its own Serial Number for tracking purposes



WCIS-CLD200-316TFE System



WCIS Range of Chemical Injection Systems
Standard Systems Configurations

WCIS-CRP-Systems “V” Series
(High Pressure/High volume 8-33L/HR)



Features:

- All tubing and fittings 316SS
- 1 x Williams V Series (API-675) Pump (316s/s) and MKXII Controller to Regulate Strokes Per Minute (316s/s)
- 1 x Chemical “Y” Strainer (316s/s) 263 micron
- 1 x Williams Relay to supply increased volumes of Air/Gas to the Pump Drive Side
- 1 x Rate Gauge to suit flow rate (316s/s)
- 1 x Air/Gas Regulator to set input pressure with gauge (316s/s)
- 1 x 63mm Pressure Gauge for Discharge pressure (316s/s)
- 1 x Pressure Safety Valve set to requirement (316s/s)
- 1 x Isolation Valve from Chemical Supply (316s/s)
- 1 x Isolation Valve from Chemical Rate Gauge (316s/s)
- Assembled into easy to operate system contained within a Modular style Frame complete with 70mm spill tray (316s/s)
- Check Valve to prevent backflow
- Each System has its own Serial Number for tracking purposes



V series Plungers	
CR	Ceramic
A	17/4
B	316SS



WCIS-CRP1000V800CRTC System

V Series seal Options and suggested pressure range	
V	Viton (100-750psi)
BR	Buna (100-750psi)
EPR	Ethylene Propylene (100-750psi)
K	Kalrez (100-750psi)
TC – Standard	Teflon composite (100-3000psi) -
PE	Polyethylene (100-3000psi)
TG	Teflon Graphite (3000-10000psi)