



SIMPLEX MANIFOLDS

SM3000 SERIES

Description

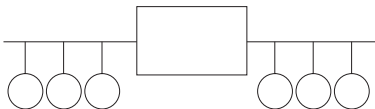
The SM3000 Series Simplex Manifolds are designed, built and cleaned to regulate high purity gas cylinders. Simplex manifolds are primarily used in applications not requiring an uninterrupted supply of gas. There are two (2) basic designs; "Simplex Center" and "Simplex Left". We offer a wide selection of pressure reducing regulators and several options, such as remote alarms.

Key Features

- Used when large cylinder banks are required
- Simplex center configuration allows for manual changeover
- Used when gas supply interruption is not critical

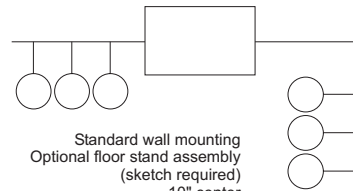
Header configuration

STANDARD CONFIGURATION



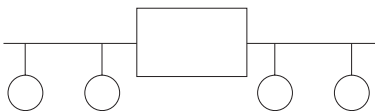
Standard wall mounting
Floor stand optional
10" center

"L" SHAPED CONFIGURATION



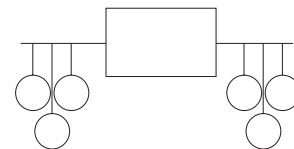
Standard wall mounting
Optional floor stand assembly
(sketch required)
10" center

LONG CONFIGURATION



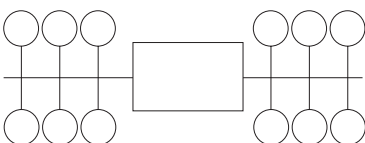
Standard wall mounting
Floor stand optional
15" center

SHORT CONFIGURATION



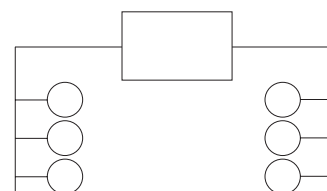
Standard wall mounting
Floor stand optional
5" centers

CROSSOVER



Floor stand standard
Wall mounting optional (sketch required)
10" center

"U" SHAPED CONFIGURATION



Floor stand (sketch required)
or wall mounting (sketch required)
10" centers

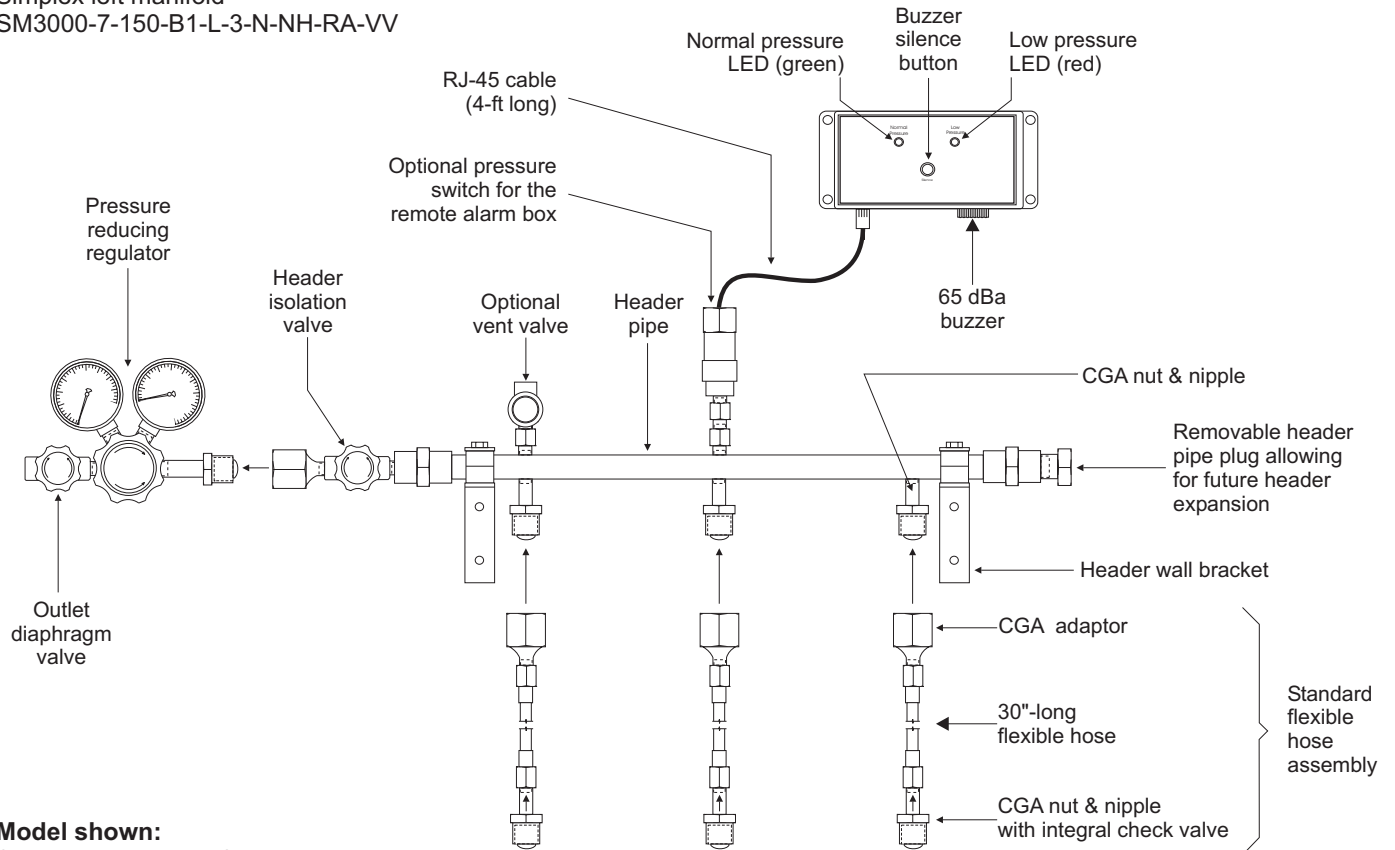


SIMPLEX MANIFOLDS

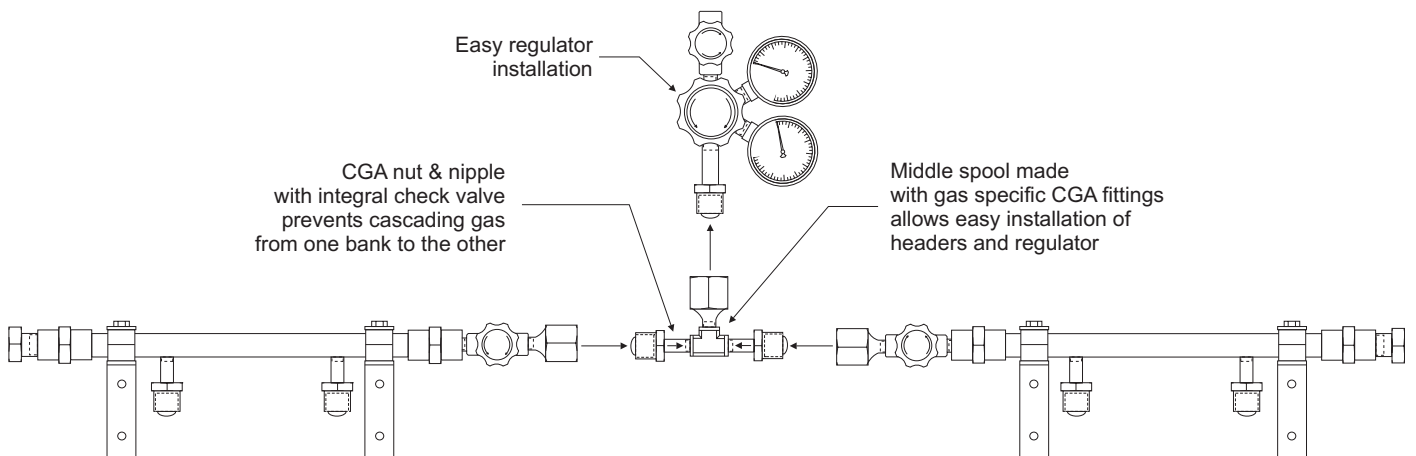
SM3000 SERIES

Model shown:
Simplex left manifold
SM3000-7-150-B1-L-3-N-NH-RA-VV

OPTIONAL REMOTE ALARM BOX



Model shown:
Simplex center manifold
SM3000-7-150-B1-C-3-3-N-NH



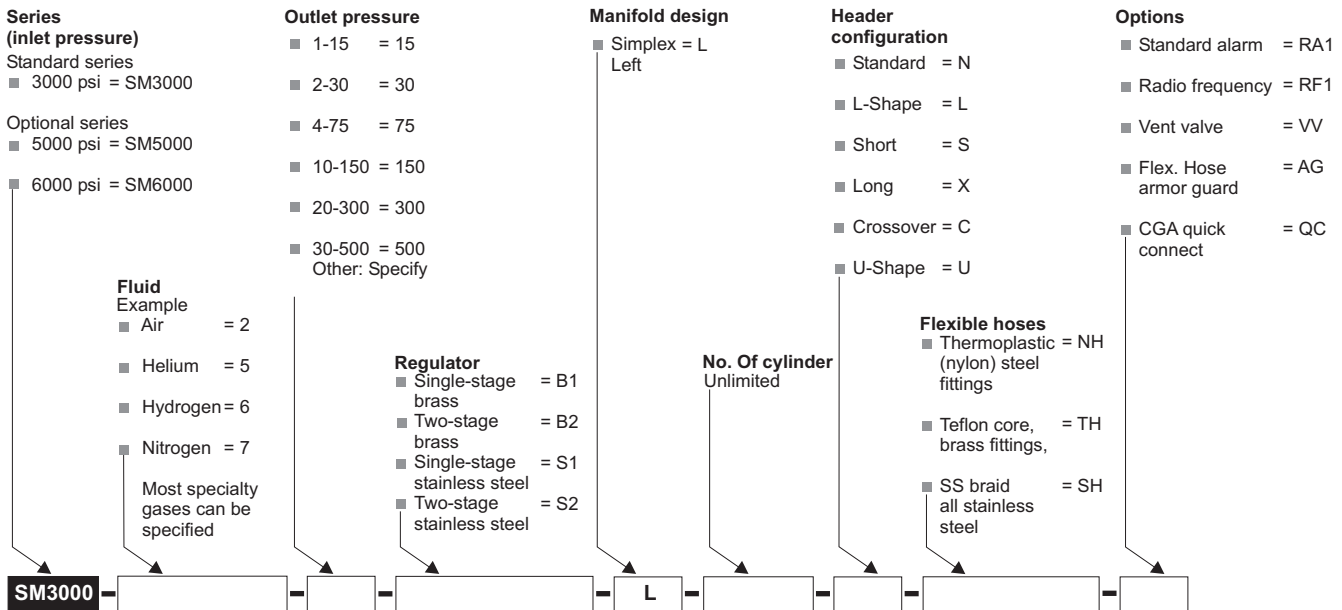


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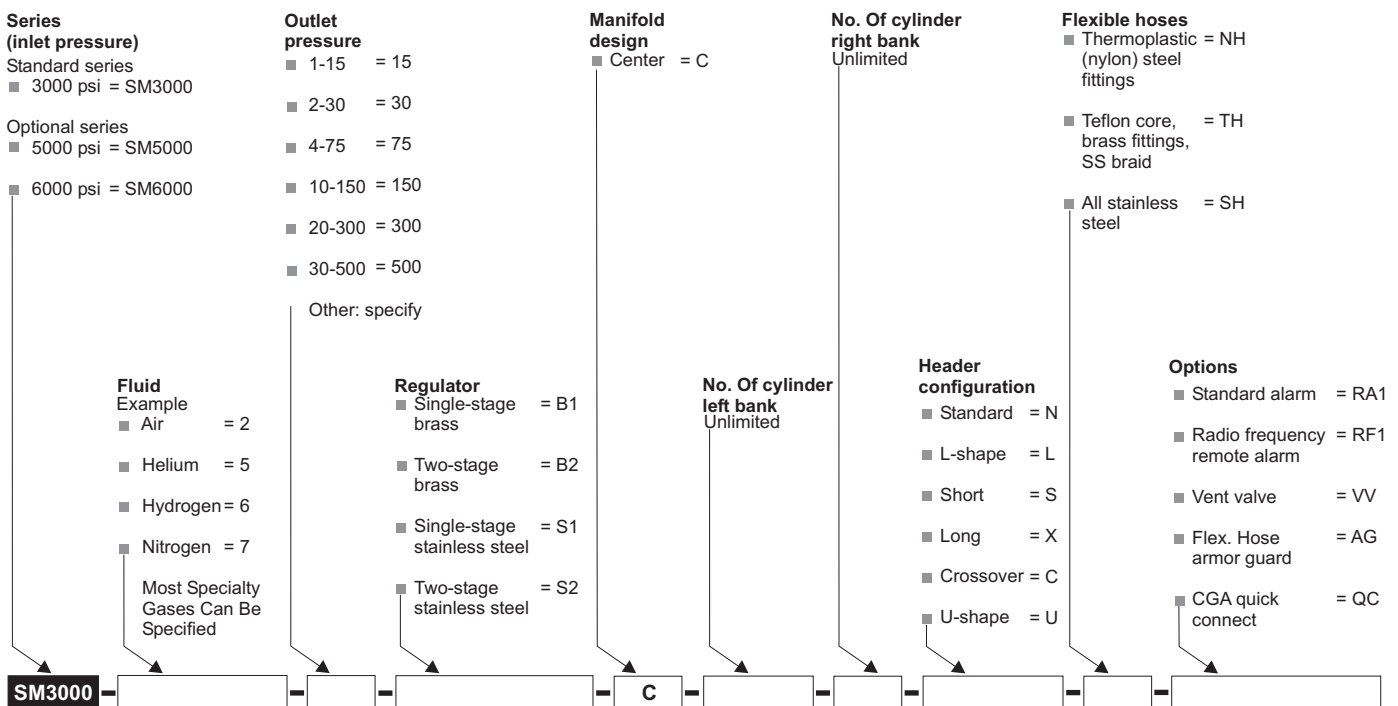
SM3000 SERIES

How to order - part number matrix

SIMPLEX LEFT MANIFOLDS



SIMPLEX CENTER MANIFOLDS



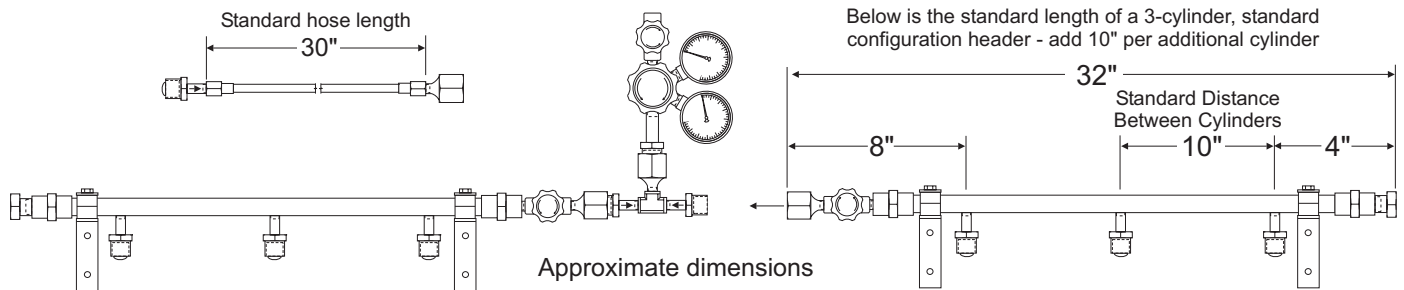
WHEN A STAINLESS STEEL REGULATOR IS SELECTED, ALL FITTINGS, GAUGES AND PRESSURE SWITCHES COME AUTOMATICALLY IN STAINLESS STEEL



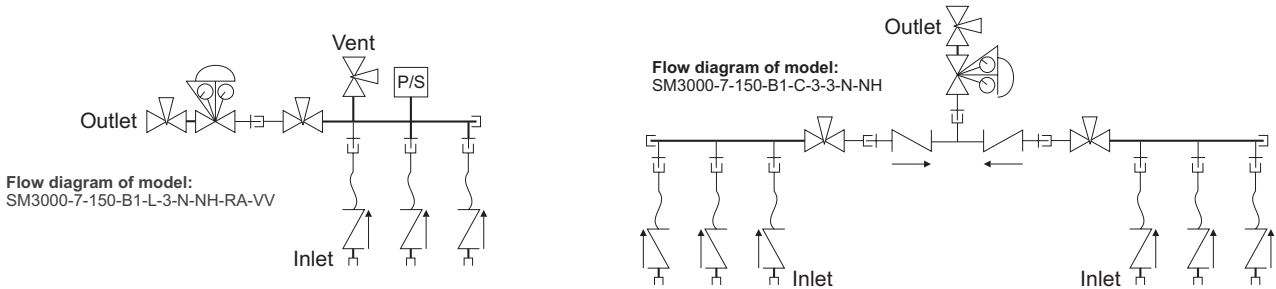
SIMPLEX MANIFOLDS

SM3000 SERIES TECHNICAL SPECIFICATIONS

Dimensional drawing



Flow schematic



Standard specifications and materials of construction

Model	SM3000 series Brass construction	SM3000 series All stainless steel construction
Maximum inlet pressure	3000 psig	3000 psig
Outlet pressure range	See part number matrix	See part number matrix
Inlet connection fitting	Gas related brass CGA nut & nipple	Gas related type 316 stainless steel CGA nut & nipple
Gas service outlet connection	1/4" F.NPT	1/4" F.NPT
Vent valve outlet connection	1/4" M.NPT	1/4" M.NPT
Operating temperature	-40°F to 140°F	-40°F to 140°F
Pressure gauge dial & material	2"-dial, brass	2"-dial, type 316 stainless steel
Fitting size & material	1/4" NPS, brass	1/4" NPS, type 316 stainless steel
Pressure regulator		
Body	Brass bar stock	Type 316L stainless steel bar stock
Diaphragm	Type 304 stainless steel	Type 316L stainless steel
Filter	10-micron Nickel-plated sintered bronze	40-micron Type 316L stainless steel
Seats	PCTFE	PCTFE
Seals	Teflon	Teflon
Vent & isolation valves		
Body	Forged brass UNS 37700	Type 316 stainless steel
Seats	Nylon, Zytel 101 or Celanese 1000-1	PFA
Seals	Virgin Teflon	PFA