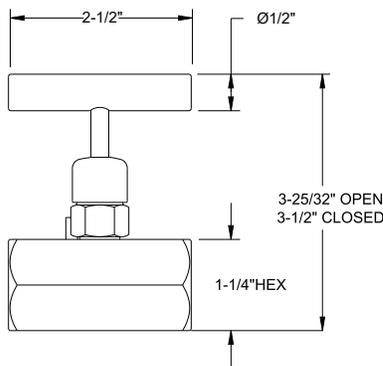


PROCESS GRADE NEEDLE VALVE



Bidirectional Flow (Soft Seat)
Unidirectional Flow (Hard Seat)

Reotemp needle valves allow users to isolate pressure to their instrument and remove the instrument without disturbing or shutting down the system. A variety of options are available to suit just about every application.

FEATURES / BENEFITS

- FKM O-ring Seal and PTFE Back-up Ring Below the Stem Threads to Protect from Corrosion and Galling; Soft Seat Comes Standard With Delrin Seat
- PTFE or Grafoil Packing Optional
- All Stems are 316SS
- Vinyl Dust Cap for Bonnet & Stem (Non-packing)
- Rolled Threads for Strength, Durability, and Ease of Use
- All Valves are Helium Leak Tested for Optimal Performance

SPECIFICATIONS

Body Material	316 Stainless Steel, Zinc-nickel Plated Carbon Steel
Pressure Rating	Hard Seat - 10,000 psi at 200°F, Soft Seat - 6,000 psi at 200°F.
Temperature Rating	Standard up to 200°F; Available up to 1,000°F. See Pressure/Temperature Charts on Page 173 for More Detailed Information.
Orifice	1/4" - 1/2" NPT: 0.187", 3/4" - 1-1/2" NPT: 0.438"
Flow	Hard Seat: 1/4" - 1/2" NPT: C _v 0.44, 3/4" - 1-1/2" NPT: C _v 2.70 Soft Seat: 1/4" - 1/2" NPT: C _v 0.76, 3/4" - 1-1/2" NPT: C _v 4.0
Connections	1/4", 3/8", 1/2", 3/4", 1", 1-1/4" & 1-1/2"

HOW TO ORDER: Choose options to build a part number. For example: **N10H22S-P1NC**

MODEL	SEAT TYPE	CONNECTION SIZE	MATERIAL	OPTIONS
N10 Single Handle Needle Valve N1A = Needle Valve with 90° Angled Body	H H = Hard Seat S = Soft Seat	22 44 = 1/4" MxF 4F = 1/4" FxF 22 = 1/2" MxF 2F = 1/2" FxF 24 = 1/4" F x 1/2" M (Soft Seat Only) 33 = 3/4" MxF 3F = 3/4" FxF	S 11 = 1" MxF 1F = 1" FxF 55 = 3/8" MxF 5F = 3/8" FxF 66 = 1-1/4" MxF 6F = 1-1/4" FxF 88 = 1-1/2" MxF 8F = 1-1/2" FxF	-P1NC* C = Carbon Steel S = Stainless Steel H = Hastelloy C M = Monel Available on N10: -P1 = PTFE Packing Available on N10H: -P2 = Grafoil Packing (316SS Body Rating 1,000°F at 1,500 psi) *See 174 for Additional Options

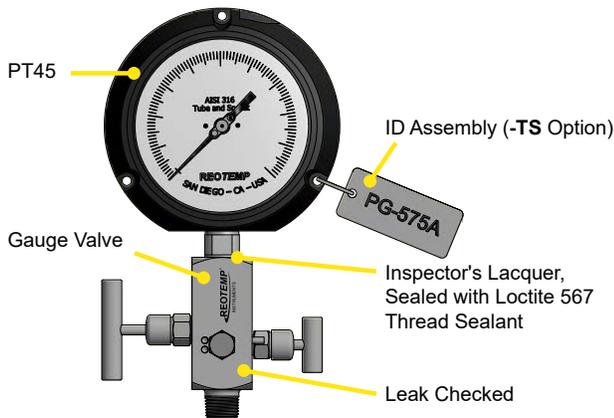
INSTRUMENT & VALVE ASSEMBLIES

Reotemp offers in house mounting services by preinstalling pressure (or dP) instrumentation on valve assemblies prior to shipping to allow for stress free/easy installation. Select from a variety of standard designs or contact your Reotemp customer service representative to design a custom assembly to suit your desired application.

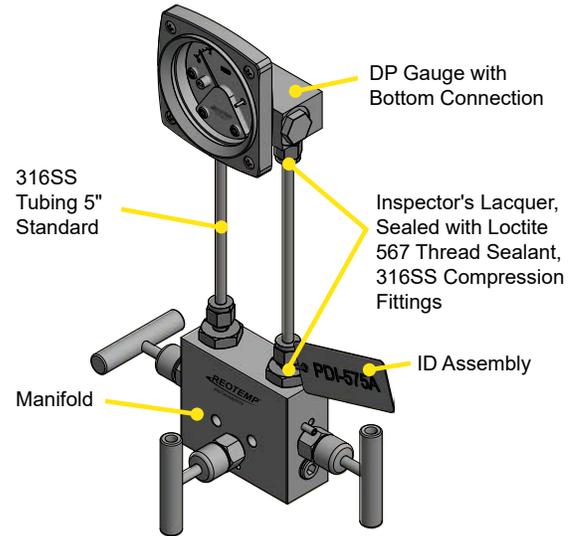
- ✓ Inspector's Lacquer & Threads Sealed with Loctite 567™
- ✓ 100% Argon Leak Checked (Maximum 1,000 psi)
- ✓ Optional ID Tag for Complete Assembly
- ✓ Packaged for Out of Box Installation
- ✓ DP Assemblies Mounted with 316SS Compression Fittings & 316 Tubing
- ✓ To Customize Your Design Contact Reotemp Customer Service

HOW TO ORDER:
Choose options to build a part number.

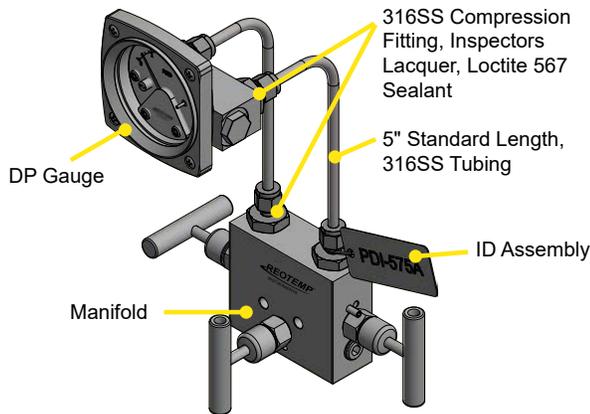
PT45P1A2P20-D-T-TS	// G20H22S	-A1
SELECT PRESSURE GAUGE	SELECT VALVE	SELECT MOUNT



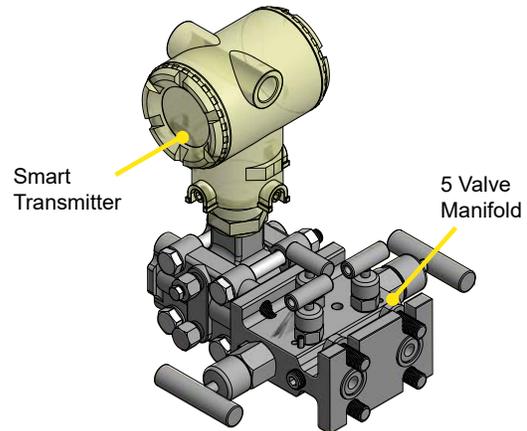
-A1 Valve mounted to pressure instrument. (Example: Gauge, Switch Direct Mount or Transmitter.)



-A4 Bottom mounted differential pressure gauge to manifold.



-A5 Back mounted threaded differential pressure gauge to manifold.



-A6 Differential transmitter to manifold.

VALVES

VALVE OPTIONS



Visit reotemp.com

- ✓ Check Stock
- ✓ Get Price
- ✓ Configure Part #
- ✓ Download PDF Data Sheets

		G10	G20	G30	G40	N10	M2PH	M2PS	M2LH	M2LS	M2M	M30H	M30S	M3M	M50H	M50S
PACKING/O-RINGS																
P1	PTFE Packing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P2	Grafoil Packing	H	H	H	H	H	✓	N/A	✓	N/A	✓	✓	N/A	N/A	✓	N/A
P3	EPDM O-Ring	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	✓	N/A	N/A
P4	FFKM (Kalrez 3018) O-Ring	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	✓	N/A	N/A
P5	NBR O-Ring	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A	✓	N/A	N/A
SOFT SEATS																
S1	PEEK	S	S	S	S	S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓
S2	PCTFE	S	S	S	S	S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓
STEM TIPS																
T1	Non-Rotating SS Stem Tip	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
T5	Ball (440C Stainless) Stem Tip	H	H	H	H	H	✓	N/A	✓	N/A	N/A	✓	N/A	N/A	✓	N/A
T6	Ball (Carbide) Stem Tip	H	H	H	H	H	✓	N/A	✓	N/A	N/A	✓	N/A	N/A	✓	N/A
T7	Ball (Ceramic) Stem Tip	H	H	H	H	H	✓	N/A	✓	N/A	N/A	✓	N/A	N/A	✓	N/A
T8	Ball (Monel) Stem Tip	H	H	H	H	H	✓	N/A	✓	N/A	N/A	✓	N/A	N/A	✓	N/A
T9	Regulating Hard Stem Tip	H	H	H	H	H	✓	N/A	✓	N/A	N/A	✓	N/A	N/A	✓	N/A
MOUNTING OPTIONS																
M1	CS 2" Pipe Mounting Bracket	N/A	✓	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓
M2	SS 2" Pipe Mounting Bracket	N/A	✓	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓
M3	1 Nut	✓	N/A	N/A	✓	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
M4	2 Nuts	✓	N/A	N/A	✓	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
EXTRAS																
NC	NACE Compliance MR0175*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
OX	Cleaned for O2 Service	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IH	Internal Hydrostatic Test	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PM	Positive Material ID	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EX	Extended Body Design	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RV	Right Vent	N/A	✓	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HP	1/2" Hex Plug	N/A	N/A	N/A	✓	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BP	1/2" Bleed Plug	N/A	STD	STD	✓	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BV	1/2" Bleed Valve	N/A	N/A	N/A	✓	N/A	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FC	CS Futbol	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FS	SS Futbol	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DC	CS Dielectric Kit	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DS	SS Dielectric Kit	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AC	CS Static Adaptors	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AS	SS Static Adaptors	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

VALVES

*Available only on SS, Monel, & Hastelloy C-276 bodies.

- ✓ Indicates that the option is available
- N/A Indicates the option is not available
- STD The option comes standard
- H Only available on hard seated valves
- S Only available on soft seated valves