

NOSHOK Series 400 Hard Seat Valves

Steel or 316 SS, 1/4" NPT to 1-1/2" NPT, 10,000 PSI Pressure Rating

- Metal to metal hard seat design is 100% Helium leak tested to 1×10^{-4} ml/s.
- 10,000 psi pressure rating (@200°F maximum).
- Blow out proof stem that provides a secondary stem seal in the full open position.
- Stem packing below the threads prevents thread galling & corrosion.
- Viton O-Ring & Teflon back-up ring stem seals.
- All 316SS stems (even in steel valves) for longer life.
- Stem and bonnet threads are rolled for greater strength and smoother operation.
- Angled stem for precise flow metering.
- One piece bonnet with a metal to metal seal to the valvebody below the bonnet threads.
- Bonnet lock pin to prevent accidental loosening.



- Optional panel mount bonnet and panel nuts.
- Electroless Nickel plated finish on carbon steel valves.
- Electropolish finish on stainless steel valves.
- Vinyl bonnet & stem dust cap.

SPECIFICATIONS

Models 402-404, 602-604 Hard Seat Technical Data (See Table 1)

Maximum Pressure Rating:

Steel: 10,000 psi

Stainless Steel: 10,000 psi

Standard O-Ring: Viton®

Standard Back-up Ring: Teflon®

Orifice size: 0.187"

Flow Coefficient: 0.44

Model 406-412 Hard Seat Technical Data (See Table 1)

Maximum Pressure Rating:

Steel: 10,000 psi Flow

Stainless Steel: 10,000 psi

Standard O-Ring: Viton®

Standard Back-up Ring: Teflon®

Orifice size: 0.438"

Flow Coefficient: 2.70

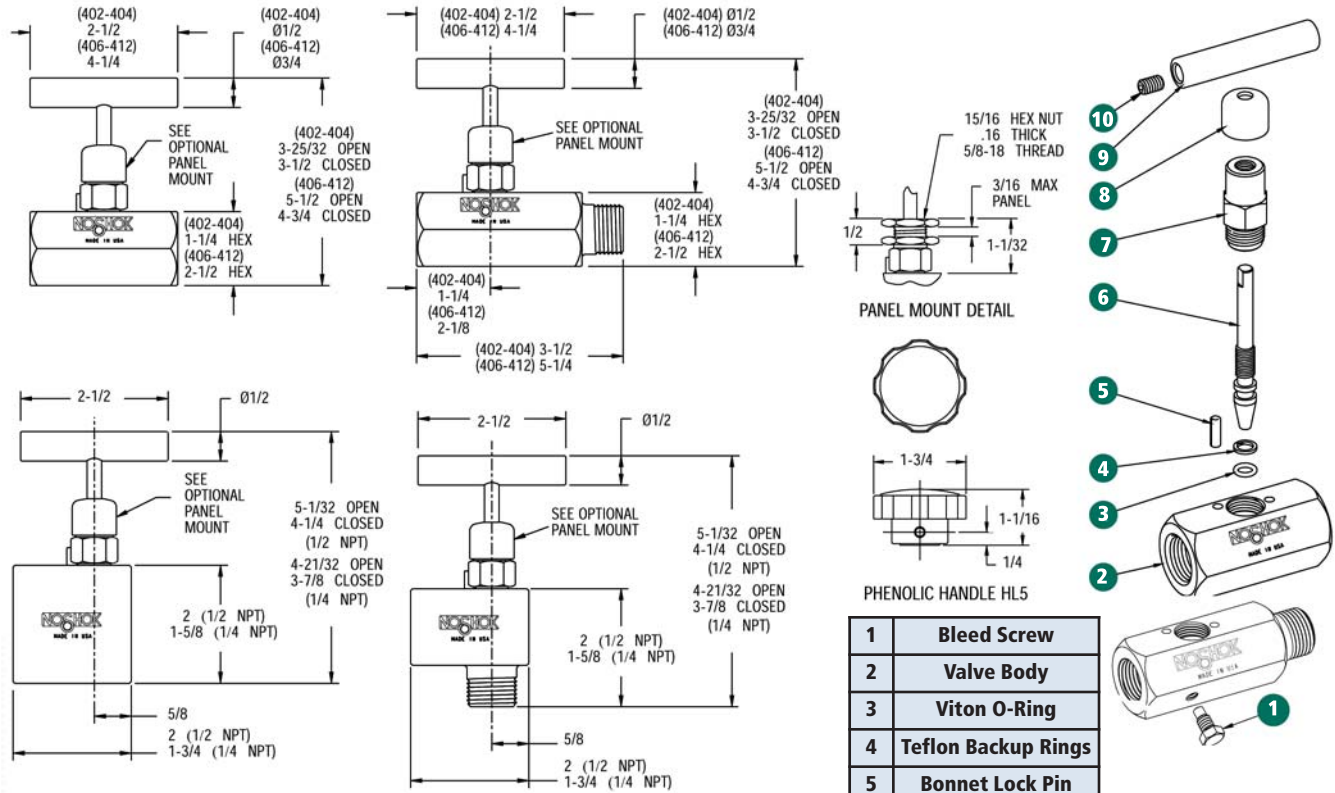
Table 1- Part Numbers

Part Number	P/N W/Bleed Screw	Connection	Material
402 MFC	602 MFC	1/4 NPT Male-Female	Steel
404 MFC	604 MFC	1/2 NPT Male-Female	Steel
406 MFC	-	3/4 NPT Male-Female	Steel
408 MFC	-	1 NPT Male-Female	Steel
410 MFC	-	1-1/4 NPT Male-Female	Steel
412 MFC	-	1-1/2 NPT Male-Female	Steel
402 MFS	602 MFS	1/4 NPT Male-Female	Stainless Steel
404 MFS	604 MFS	1/2 NPT Male-Female	Stainless Steel
406 MFS	-	3/4 NPT Male-Female	Stainless Steel
408 MFS	-	1 NPT Male-Female	Stainless Steel
410 MFS	-	1-1/4 NPT Male-Female	Stainless Steel
412 MFS	-	1-1/2 NPT Male-Female	Stainless Steel
402 FFC	602 FFC	1/4 NPT Female-Female	Steel
403 FFC	604 FFC	1/2 NPT Female-Female	Steel
404 FFC	-	3/4 NPT Female-Female	Steel
406 FFC	-	1 NPT Female-Female	Steel
408 FFC	-	1 1/4 NPT Female Female	Steel
410 FFC	-	1-1/2 NPT Female-Female	Steel

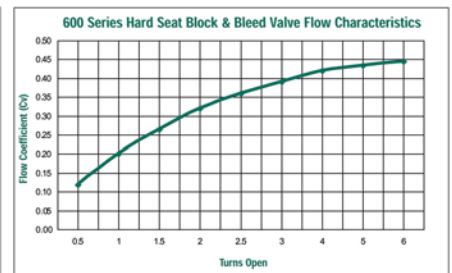
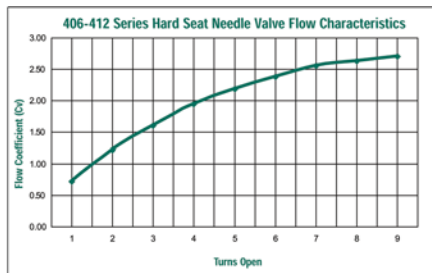
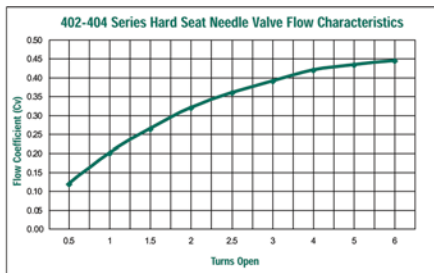
Part Number	P/N W/Bleed Screw	Connection	Material
412 FFC	-	1-1/2 NPT Female-Female	Steel
442 FFC	-	*7/16-20 unf-28 Female-Female	Steel
402 FFS	602 FFS	1/4 NPT Female-Female	Stainless Steel
403 FFS	-	3/8 NPT Female-Female	Stainless Steel
404 FFS	604 FFS	1/2 NPT Female-Female	Stainless Steel
406 FFS	-	3/4 NPT Female-Female	Stainless Steel
408 FFS	-	1 NPT Female-Female	Stainless Steel
410 FFS	-	1-1/4 NPT Female Female	Stainless Steel
412 FFS	-	1-1/2 NPT Female-Female	Stainless Steel
442 FFS	-	*7/16-20 unf-28 Female-Female	Stainless Steel-
402 MFAC	-	1/4 NPT Male-Female Angle	Steel
404 MFAC	-	1/2 NPT Male-Female Angle	Steel
402 MFAS	-	1/4 NPT Male-Female Angle	Stainless Steel
404 MFAS	-	1/2 NPT Male-Female Angle	Stainless Steel
402 FFAC	-	1/4 NPT Female-Female Angle	Steel
404 FFAC	-	1/2 NPT Female-Female Angle	Steel
402 FFAS	-	1/4 NPT Female-Female Angle	Stainless Steel
404 FFAS	-	1/2 NPT Female-Female Angle	Stainless Steel

*SAE J1926-4 O-Ring Port

DIMENSIONS INCHES



FLOW CHARACTERISTICS



TO ORDER:

A-BCD

Example 1: 408 MFS

Example 2: 408 MFS-PM2-HL3

A Part Number	B Panel Mount Option	C O-Ring Options	D Handle Options
Select From Table 1	-- none PM1=Panel Mount (1 nut) PM2=Panel Mount (2 nut)	-- Viton (Standard) EM1= EPDM 80 KZ1= Kalrez® 3018	-- T Handle (Standard) HL3= Round Knurled HL4= 1-3/8 Phenolic HL5= 113/4 Penolic

Kalrez® and Viton® are registered trademarks of DuPont Dow Elastomers
 Teflon® is a registered trademark of the DuPont Company